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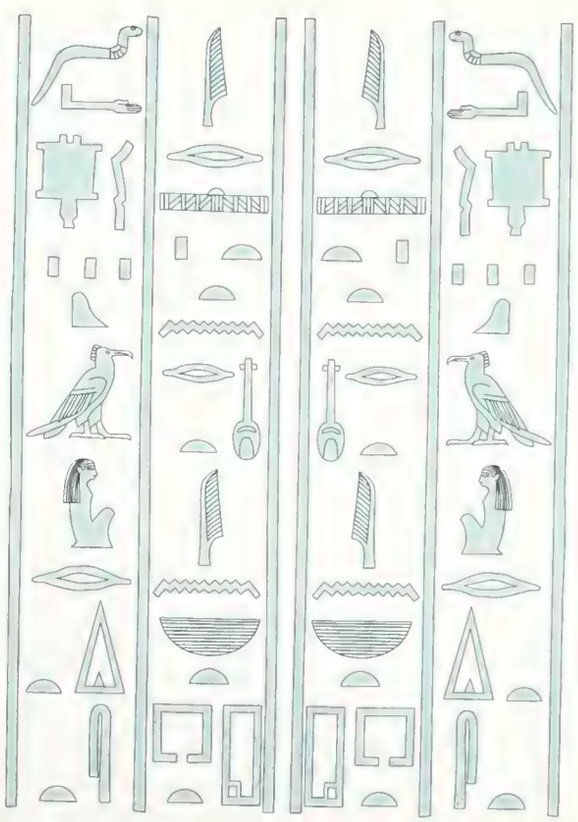

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DES

ANTIQUITÉS ÉGYPTIENNES

DU MUSÉE DU CAIRE

WEIGHTS AND BALANCES

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CATALOGUE GÉNÉRAL

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ANTIQUITÉS ÉGYPTIENNES

DU MUSÉE DU CAIRE

Nos 31271-31670

WEIGHTS AND BALANCES

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LE CAIRE

IMPRIMERIE DE L'INSTITUT FRANÇAIS

D'ARCHÉOLOGIE ORIENTALE

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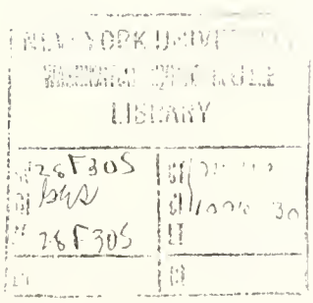


INTRODUCTION.

In preparing the description of the weights exhibited in the Cairo Museum and arranging them in what appears to be their proper standards, the writer has found it needful to adopt a view of the question which is largely at variance with that held by many authorities on the subject; and in the light of the latest evidence he has had to give expression to opinions which have not been previously entertained. It will be understood, however, that the prefatory note to this catalogue must confine itself to a simple explanation of the method of classification employed in it, and to the few remarks which are necessary in bringing under observation the special interest of certain specimens. The introduction of extraneous material, therefore, has been avoided as far as possible, though it has been thought right to note a few selected weights exhibited in other museums and collections, in order to illustrate the peculiarities of the different standards. A full argument is, thus, not admissible here; but it is hoped that the following remarks will be sufficient to justify the tentative arrangement of the material.

So controverted, however, is the whole question of the standards in use in ancient Egypt, and so easy is it to assign a weight quite incorrectly to a system, that the writer must at the outset declare his great liability to error. Unfortunately the obvious necessity of classifying the weights into their standards already places the whole shape of the catalogue in the region of theory, and gives to the work more individuality than is desirable in a plain record of antiquities. But this is unavoidable.

To a certain extent the standards recognized in these pages are those which Prof. Flinders Petrie has eliminated from the chaos of conflicting and contradicting scales; but an amount of resifting and weeding has been adventured, and experimentally a much greater allowance has been admitted for the divergencies of weights in any one standard. As a result of this many foreign standards have been dismissed from consideration, and the weights which might have belonged to them have been absorbed into the regular Egyptian systems, with the exception of a few specimens which are here regarded as rarities. Only four systems are here admitted as being in general use in Egypt, instead of the dozen or so which have previously been admitted.

In brief the general scheme of classification followed in this catalogue is as follows :

In the Old Kingdom there is only :

The Egyptian Gold Deben or Stater Standard, with a unit of 13 gr. 0-14 gr. 2.

In the Middle Kingdom there are two systems :

The Egyptian Gold Deben or Stater Standard : unit of 12 gr. 0-14 gr. 2,
The Phoenician Gold Deben or Stater Standard : unit of 14 gr. 6-15 gr. 9.

In the New Kingdom there are three systems :

The Egyptian Gold Deben or Stater Standard : unit of 12 gr. 0-13 gr. 8,
The Phoenician Gold Deben or Stater Standard : unit of 14 gr. 0-15 gr. 9,
The Egyptian Kedet Standard : unit of 8 gr. 8-10 gr. 0.

In the Late Kingdom there are four systems :

The Egyptian Gold Deben or Stater Standard : unit of 11 gr. 5-13 gr. 5,
The Phoenician Gold Deben or Stater Standard : unit of 14 gr. 0-15 gr. 5,
The Egyptian Kedet Standard : unit of 8 gr. 0-9 gr. 5,
The Alexandrian Stater Standard : unit of 10 gr. 0-10 gr. 95.

The undoubted foreign systems which have been found in Egypt, specimens of which only seem to occur in isolated cases, are :

The Assyrian Shekel Standard : unit of 7 gr. 6-8 gr. 4,
The Persian Siglus Standard : unit of 5 gr. 4-5 gr. 8.

Finally, in the Roman and Byzantine periods in Egypt, there are weights based on the *uncia* system, and from the Arabic period two specimens are exhibited in this collection.

The only really representative collection of Egyptian weights is that belonging to Prof. Petrie and exhibited at University College, London. Second to this is the Cairo collection which, although large, is lacking in inscribed specimens. There are small but interesting collections at many of the large museums such as Berlin, the British Museum, and the Louvre, and several of the smaller museums of Europe possess a few specimens. Many of the weights in Prof. Petrie's collection are recorded by him in his *Memoirs* of *Illahun*, *Tanis*, *Naukratis*, and *A Season in Egypt*, and a hundred of the most interesting are drawn and described by the writer in the *Proceedings of the Society of Biblical Archæology*, for December 1901, where the classification, however, is now seen to be incorrect. Several specimens from different museums are recorded in the same journal for June 1892 and May 1893 by Mr. Ll. Griffith, whose learned paper in the former

number is of great importance to the study of the subject, and for March 1892 M. Revillout describes two or three weights in the Louvre and elsewhere. Prof. Petrie's article on *Weights and Measures* in the *Encyclopædia Britannica* remains the basis of all study of the subject, although far more evidence now exists than when it was written. Prof. Spiegelberg's *Rechnungen* supplies much important matter, as also does the *Recherches sur les poids* by M. Chabas. Drs. Grenfell and Hunt give a very important notice on later weights and coins in *Tebtunis Papyri*, Ap. II. For the subject of weights in general Prof. Ridgeway's *Origin of Currency and Weight Standards* is the most important work. Prof. Petrie's list of references in the *Encyclopædia Britannica* should also be noted.

THE EGYPTIAN GOLD DEBEN OR STATER STANDARD.

Throughout the Old Empire only one standard seems to have been employed, which ranged from 13 to 14 gr. 2. This unit was undoubtedly called a or , *deben* (originally transcribed *uten*). There is a weight dating probably from the Old Empire which is inscribed « 10 debens », and weighs 141 gr. 7 : this shows that one deben weighs 14 gr. 17 (Berlin Mus. Brugsch, *Thes.*, VI, p. 1452). Now the word *deben* is well known in the sense of « circular » or « encircling », and here it evidently means a *ring* or *circle;* hence it will be seen that the sign ○ which is so often inscribed upon weights of this standard is simply an abbreviated writing of the word . This is further shown by the fact that on a weight of about Dyn. IV-XII (a nearer dating is impossible) drawn in the *Proceed. Soc. Bibl. Arch.* of December 1901, pl. III, n° 7033, the circle is written ◎; and again on the specimen in the same article, n° 7041, it is written ◎. The determinative in the word is an ideogram of the weight itself, which is almost always oblong-rectangular in form.

This deben of 13 to 14 gr. 2 was certainly used for weighing gold, as weights of this system, during the Middle Kingdom if not actually during the old, are inscribed with the gold sign , *nub;* moreover a curved bar of gold inscribed with the name of king Menes of the I^st^ dynasty weighs 14 grammes, *i. e.* exactly one deben (Petrie, *Royal Tombs*, II, p. 21, pl. III *a*). But once having been fixed as the regular unit wherever scales were employed, it did not necessarily confine itself to the weighing of gold. Indeed there are one or two weights of this system which are far too roughly made to have been intended for weighing precious metal. Malachite, for painting the eyes, was in

early times a valuable perquisite, and would doubtless be weighed with care. In the tomb of king Zer of the Ist dynasty a small lump of malachite was found carefully trimmed to an almond shape, with a flat bottom, and weighing 13 gr. 6, and this may well be one deben. Another weight dating from this early period was found in an archaic tomb at Abydos (*P. S. B. A.*, December 1901, n° 7043, and the malachite weight n° 7046). It is an oblong rectangular piece of sandstone weighing 28 gr. 4, *i. e.* 2 debens of 14 gr. 2.

Of the IInd and IIIrd dynasties no weights have been found, but we know so little of the period that this is not surprising. A stone weight, already mentioned, inscribed « 10 debens », belonging to a *sem*-priest named Ammpy and also Ptahenkau, seems to date from IVth dynasty. It was found at Saḳḳâra, and weighs 141 gr. 7, which divided by 10 gives a unit of 14 gr. 17 (Brugsch, *Thes.*, VI, p. 1451, n° 82). Of the same dynasty, however, there is a weight inscribed with the names of king Khufu and the value « 10 debens » ; it weighs 133 gr. 48, which gives a deben of 13 gr. 34, a slight drop since the earlier period (Coll. F. G. Hilton Price, Petrie, *Academy*, n° 977, p. 95; Griffith, *P. S. B. A.*, June 1892, n° 1). By the style of the work a weight numbered 7036 in *P. S. B. A.*, December 1901, seems to date from about the Vth dynasty; it is inscribed « 6 gold (debens) » and weighs 82 gr. 92, *i. e.* 6 debens of 13 gr. 82. In *Abydos*, II (pl. XV, 14; and p. 31) Prof. Petrie records a weight found at the Vth dynasty level in the Osiris Temple; it is inscribed ∩∩∩ « 30 » and weighs 134 gr. 8, *i. e.* 10 debens of 13 gr. 48, divided into « thirty » thirds of a deben (4 gr. 46) either because a third was an ordinary unit in this system, or because in this case the weight had to be adjusted to the convenience of foreign merchants employing a unit of 4 gr. 46, perhaps half a Syrian shekel.

During the Middle Kingdom the weights of this system run from 12 grammes to 14 gr. 2, and the rise is too steady to permit of the division of the standard into two or more varieties. Moreover, as low as 12 gr. 4 and as high as 14 gr. 15 there are specimens actually inscribed « gold deben ». The majority, however, seem to range from 13 gr. 48 to 13 gr. 94, with a greater tendency towards the latter figure, and we therefore must regard the true average deben of this period as about 13 gr. 8, the low specimens being either fraudulent or belonging to some local variety.

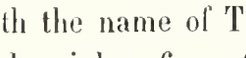
There are several interesting inscribed specimens of this period. Petrie (*Hyksos and Israelite cities*) records a weight inscribed with the name of king

Khety of the IXth dynasty which is marked ||| ||| ||| ~9~, and weighs 119 gr. 89, *i. e.* a unit of 13 gr. 92. In the *P. S. B. A.*, XIV, p. 245-246, Revillout records a weight inscribed with the name of king Raʿ-en-maaʿt [Amenemhat III] and with the value ~~~ IIII ~4 gold [debens]~. It weighs 50 gr. 83, *i. e.* a unit of 12 gr. 7. Another royal weight, giving the name of Senusert and of his goldsmith Mera, weighs 55 gr. 34, *i. e.* 13 gr. 83 × 4 (Petrie, *History*, p. 164). A weight in the present collection — n° 31201 — probably dates from this period. It is inscribed ~~~ × ~gold : fraction (?)~ and weighs 4 gr. 65, *i. e.* 1/3 of a deben of 13 gr. 95. A curious numeral occurs on a weight recorded by Petrie in *A Season in Egypt*, pl. XXVIII, p. 170 : it is inscribed ○ ||| ∩ ||| ||| ~19 debens~, and weighs 249 gr. 6 which divided by 19 gives a unit of 13 gr. 136. *Nine* is the numeral on a specimen from Kahun (*P. S. B. A.*, December 1901, n° 7034) which weighs 246 gr. 4, *i. e.* a unit of 13 gr. 69 or nine double debens.

From these and other specimens some interesting peculiarities of the standard will be observed. It will have been noticed that some of the weights are 1/3 debens, 1/2 debens, and double debens in unit. There was also a ten deben unit, as is shown by a weight inscribed III ~3~ and weighing 417 gr. 6, *i. e.* 13 gr. 92 × 10 × 3 (*P. S. B. A.*, December 1901, n° 7032). Another point to be observed is that the multiples follow no regular system. There are specimens known with multiples such as 50, 40, 30, 20, 19, 10, 9, 8, 6, 5, 4, 3, 2, 1/2, 1/3, and so on. A fact which should be carefully noted is that the inscribed weights in this system vary from 12 to 14 gr. 2, *i. e.* 16 to 17 per cent, and we are therefore safe in allowing that amount of variation in the other standards, instead of the 10 or 11 per cent which has usually been supposed to be the limit. In fact an even greater variation would be allowable, as the *gold* standard naturally should be the least fluctuating of the systems.

During the whole of the Old and Middle Empires the weights of this standard, with not more than two or three exceptions, are oblong-rectangular in form, with sometimes a rounded upper surface. The workmanship is generally good; the corners are rounded to prevent chipping, and usually there is an inscription neatly cut in. There must be nearly fifty inscribed specimens now known. The materials of which these weights are made vary, but the most usual are alabaster, limestone, steatite, serpentine, and basalt.

In the New Empire the standard continued in importance throughout the XVIIIth dynasty. There is a weight inscribed with the name of Raʿ-zeser-ka (Amenhetep I^st) and the value ~~~ ||| || ~5 gold (debens)~; it weighs 67 gr. 26,

which divided by 5 gives a unit of 13 gr. 452 (Petrie, *Archæological Journal*, 1883, p. 419), and it is now in the British Museum. Another weight inscribed with the name of Thoutmosis I[st] has the value  « 6 gold debens », and weighs 76 gr. 645, *i. e.* a unit of 12 gr. 774; it is now in the Louvre (Revillout, *P. S. B. A.*, XIV, p. 247). From the XIXth dynasty onwards, however, the system was not largely employed, its place being taken by the Egyptian Kedet Standard and Phœnician Gold Deben or Stater Standard. Its value fell somewhat, and, during the Saitic period, it ranged from about 11 gr. 5 to 13 gr. 5. The extremes may be seen in this collection in n°s 31408 and 31444.

The fact that the standard covers the same range of value as the so-called Æginetan Drachma standard has led to its identification with that system, and indeed a certain amount of assimilation very probably took place between the two standards during the Greek period in Egypt. It is often employed at Naukratis (as in n°s 31210 and 31235), and the name of the unit « deben » may have been dropped in place of « Stater », the main unit name of this Æginetan Standard and of similar value. The word stater occurs in Demotic writings (Grenfell and Hunt, *Tebtunis*, Ap. II). In the Æginetan Standard 12 obols went to one stater, and we certainly get 1/6, 1/12, and 1/24 of the Egyptian unit, which might well be 2, 1, and 1/2 obols (see n°s 3128 et 31250), showing that the subdivisions were often purely Greek. But, on the other hand, there are subdivisions such as 1/4 and 1/10 (see n[os] 31464 and 31475) which are quite Egyptian in character. And considering that the system appears as early as the I[st] dynasty, and continues without a break throughout the history of the nation, it would seem more correct that the standard should be regarded to the end as a pure Egyptian system than that the weights of this value should be termed Æginetan. It would certainly be impossible to draw a distinct line between those weights which had been considered Æginetan staters with a subdivision into 12 obols, and those which had been intended for Egyptian debens or staters with a probable subdivision into 10 units of unknown name, and again those which showed an adjustment of the one system to the other.

That the standard was still employed at this late period for weighing gold is perhaps indicated by the fact that the weights are usually very carefully made. They are sometimes of bronze (as n° 31222) and often of hæmatite (as n°s 31306, 31309 and 31444), and are usually well polished and smoothed. The rectangular-oblong shape of the earlier times, however, has given place to a variety of forms indistinguishable from those of other standards. As late as

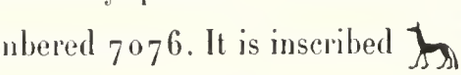
Ptolemaic times the system is to be found in Egypt at about 12.8 grains in the coinage of Ptolemy I and II (R. S. Poole, *British Museum Catalogue of Coins*).

This standard appears to have been largely employed in the countries around Egypt. There are hæmatite weights from Syria (Petrie, *Archæological Journal*, 1883, p. 419) which average 12 gr. 88; and the multiples are 1/2, 1/4, 1/8, thus perhaps distinguishing the system from the Eginetan. Hultzsch (*Griechische und Römische Metrologie*) points out that the double mina of Sidon was about 13 gr. 5×50, and at Troy (Petrie, *Encyc. Brit.*, *Weights*, p. 488) hæmatite weights were found ranging from 13 gr. 48 to 12 gr. 54.

THE PHŒNICIAN GOLD DEBEN OR STATER STANDARD.

From the earliest times in Babylonia there was a shekel system in use, weighing on an average 8 gr. 35 × 2 = 16 gr. 7. This spread from the Euphrates over a large area, including Syria and Asia Minor, and in Egypt, during the period of transition from the Old to the Middle Empire, in about the Vth-VIIth dynasties, it appears in a slightly reduced form, *i. e.* from 14 gr. 6 to 16 grammes. There seems no doubt that this standard is identical with the so-called "Phœnician" Stater Standard which was so common in the New Empire in Egypt, and which was valued from 13 gr. 6 to 15 gr. 6; for this reason we are perhaps justified in calling the system by that name, although its early appearance in Egypt is an argument in favour of some other distinguishing appellation. The sign ○, which appears on specimens of the early period, suggests that it was called a *deben* by the Egyptians of the Middle Empire, and the Demotic papyri (Grenfell and Hunt, *Tebtunis*, Ap. II) show that it was called a *stater* in Ptolemaic times when it equalled four drachmæ. In form it was generally, in the early period, precisely the same as the Egyptian Gold Deben Standard, and this leads one to suppose that it was used for weighing gold just as was the other system. It should be observed, however, that the writer has not met with any specimens inscribed with the gold sign : this may or may not be accident.

The earliest known specimen of this standard is now in the Turin Museum (Cat. n° 6356). The inscription, which is here given in order to correct the transcription in the Turin Catalogue, reads : (the may be) "the lector, etc., Hepy : 10 Debens"; it weighs 160 grammes, *i. e.* 10 debens

of 16 grammes unit. Another early specimen is recorded in *P. S. B. A.*, December 1901, where it is numbered 7076. It is inscribed  « the Judge, etc., Nefer-maa't », and this inscription — together with the workmanship — seems to date it to about the IVth dynasty; it weighs 14 gr. 66. Five other specimens, numbered in the above-mentioned article n°s 7072, 7074, 7075, 7078, and 7081, all seem by their workmanship to date from the VIth to XIIth dynasties. Their inscriptions and units are respectively : « 20 », 14.62; « 3 », 14.96; « 6 debens », 14.94; « 1 deben », 14.97; and « 1/2 », 15.24.

In form, as has been said, the weights of this system are usually similar to those of the Egyptian gold standard, *i. e.* oblong-rectangular, and generally inscribed on the upper face. In Assyria and Babylonia weights representing a trussed duck (as in *P. S. B. A.*, December 1901, n° 7052) are common, and Form Y, of which there are one or two specimens belonging to this standard, is undoubtedly a degradation of this.

In the New Empire and in later times the weights of this standard were of various forms and materials, as was the case with all standards, but there are a few points to be noted. The barrel shaped weights — Form X — are very often found in this system, as in n°s 31289, 31284, 31282, 31255 here. Hæmatite and bronze, being hard materials and not likely to chip, were both freely used, and their formation is usually careful and neat. Eight of the specimens in this collection are of bronze.

The fact that the deben or stater was subdivided into drachmæ in later times is shown by its multiples. In this collection we find 1 1/2, 3/4, and 1/8 (n°s 31255, 31276, 31471) *i. e.* 6 drachmæ, 3 drachmæ and 1/2 drachma. There is also the known equation : 4 drachmæ = 1 stater (Grenfell and Hunt, *Tebtunis*, Ap. II). Whether this division was employed in the early period is not known.

Throughout the New Empire and Saitic period, this standard was used with increasing frequency, its weight ranging from 14 to 15 gr. 5, and, under the Ptolemies, it became the chief unit of Egypt. The average of the coins of Ptolemy I^st^ (Mommsen, *Histoire de la Monnaie romaine*) is about 14 gr. 22, and of all the Ptolemies together about 14 gr. 15 (Vasquez Queipo, *Essai sur les systèmes métriques*, 1859).

With regard to its occurrence in other countries it will be noted that the tribute of the Rutennu, of Naharin, Megiddo, etc. (Petrie, *Encyc. Brit.*, *Weights*, p. 487) is on a basis of 454-484 kedets, which works out into round figures

as 300 staters or debens of about 14 gr. 6. The common weight at Troy averages 14 gr. 54. In the early Phœnician and Macedonian coinage it is the main unit: and in the Punic weights it is predominant.

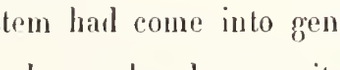
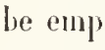
THE EGYPTIAN KEDET STANDARD.

The word is transcribed in Coptic ⲕⲓϯ or ⲕⲓⲧⲉ, *kite*, and is often spoken of as *kat*; it is, perhaps, preferable to use here the transliteration *kedet*. The kedet standard, the great system of the New Empire, appears to have come into Egypt during the foreign invasions between the XIIIth and XVIIIth dynasties, as its existence is not known up to the XIIth dynasty, and it was in full use in the XVIIIth dynasty. Its origin is not known, but it should be observed that it is found in Syria and at Troy (Petrie, *Encyc. Brit.*, p. 486). In Egypt the early specimens range from 8 gr. 8 to about 10 grammes[1], and, during the Saitic period, the value seems to decrease to 8 to 9 gr. 5. For the whole course of the existence of the standard there is, therefore, a variation of 2 grammes, which, as will be seen from that in the Egyptian Gold Deben Standard, is not excessive. It has been the usual custom to divide up the weights with this range of units into three distinct standards: those weighing from about 8 to 8 gr. 5 have been assigned to the Assyrian or Babylonian Shekel system, those from 8 gr. 5 to 8 gr. 9 to the Attic or Euboic Drachma standard, and only those from 8 gr. 9 to 10 grammes to the kedet standard. There are several arguments against this division, but primarily it should be remembered that there is no reason whatsoever for supposing that foreign standards were largely used in Egypt. Foreigners are more likely to have adopted the systems of the country than they are to have brought their native ones with them, just as in the case of the Ptolemaic coinage, which was based on the two ancient units of Egypt — the Phœnician and Egyptian Gold Debens, — although Egypt was at the time under the influence of Greece. If it is argued that the Attic Drachma system was used in Naukratis and other Greek towns where the units of 8 gr. 5 to 8 gr. 9 are found, and this, because it is natural to expect a Greek system in a Greek town, it may be contested on the other hand that a larger number of weights are found in these towns, which range from 8 to 8 gr. 5 and which are therefore similar to the units of the Assyrian Shekel standard. And there is no question that those persons who would be likely to have used the Assyrian standard

[1] It is impossible to state exactly at what point the kedet standard ends and the Alexandrian Stater Standard begins.

were in an extreme minority there, if indeed they existed at all, so that these weights are far more likely to have been kedets.

The main argument against the employment of the Attic or Euboic Drachma system in Egypt is as follows. It is a general rule that, in a system where standard inscribed weights are rare, the majority of uninscribed specimens is lower than those in value. The tendency is, naturally, for the general weights of the *people* to decrease in value, being only occasionally pulled up by the official weights. Now the official kedet of the Treasury of Heliopolis (Harris Coll., *ap.* Chabas in *Rev. Arch.*, Nouv. Série, III, 1861, p. 14) weighs 9 gr. 06, and that of the Temple of Nubt 9 gr. 03 (*P. S. B. A.*, n° 7007). But one is justified in expecting a decrease from these standard specimens ranging over 0 gr. 5 at the very least, that is to say from a trifle over 9 grammes down to 8 gr. 5, *i. e.* exactly the range attributed to the Attic system, the introduction of which is thus unnecessary. The argument against the Assyrian Shekel system is based upon an equation which occurs in Demotic papyri : one stater = 4 drachmæ, one kite (or kedet) = 2 drachmæ (Grenfell and Hunt, *Tebtunis*, Ap. II), that is to say one stater = 2 kedets. Now the only possible way in which this can be explained is by supposing that one drachma weighs about 4 grammes, one kedet 8 grammes, and one stater 16 grammes, and it should be noted that staters of this value are found at Naukratis and elsewhere, as in the case of n° 31212 in this collection. The introduction of the Assyrian standard to account for the weights of 8 to 8 gr. 5, thus, is also unnecessary. As will presently be seen, the Egyptians of the best period used sometimes a *twelfth* part of a *deben* as the equivalent of the Assyrian shekel, and called it a « piece », but the deben gradually falling in value, the kedet, or *tenth* part, was soon near enough to be used for this purpose. But, as it is as likely that the « piece » was the origin of the shekel as that it was an adaption of this standard to the shekel standard, the foreign system need not be considered.

When the kedet system had come into general use, the  or  , *deben*, came to be employed as a unit equal to 10 kedets, and presumably the deben-stater of the Gold standards was distinguished by some additional word such as , *nub*. A unit equal to 2 kedets was frequently employed; thus there is a weight inscribed « 20 » and weighing 388 gr. 8, which gives a unit of 19 gr. 44 (9 gr. 72×2), another inscribed « 20 » and weighing 374 grammes, which gives a unit of 18 gr. 7 (9 gr. 35×2), another inscribed « 5 » weighing 90 gr. 9, *i. e.* a unit of 18 gr. 18 (9 gr. 09×2), and another

inscribed 1111 «4», and weighing 89 gr. 92, *i. e.* a unit of 17 gr. 984 (8 gr. 992×2). These are to be found in *P. S. B. A.*, December 1901, nos 7003, 7004, 7006, and, in this collection, under n° 31203. It is possible that this two kedet unit was originally called a *deben*, and that the deben of 10 kedets was introduced somewhat later. There is a weight (*P. S. B. A.*, n° 7019) inscribed — which one would be justified in reading «Deben : 1/2» — weighing 9 gr. 04, *i. e.* a unit of 18 gr. 08 (or 2 kedets). Another unit of 5 kedets, or half a deben of 10 kedets, is commonly found, but there is no indication of its name. There is a specimen inscribed «30» and weighing 14 gr. 40, which gives a unit of 48 grammes (9 gr. 6×5), and another inscribed 1111 and weighing 191 gr. 2, *i. e.* a unit of 47 gr. 8 (9 gr. 56×5; see Petrie, *Illahun*, 14, and *P. S. B. A.*, December 1901, nos 4916, 4914). With regard to this unit there is an interesting point to be noticed. In the present collection (n° 31289) there is a weight of 48 gr. 6 inscribed 1 «one», *i. e.* a unit of 5 kedets of 9 gr. 72 : it is made of iron. Now, in *P. S. B. A.*, December 1901, n° 7051, there is a weight inscribed «Iron : 10», weighing 2456 grammes, which divided by the ten gives a unit of 245 gr. 6, *i. e.* almost exactly 5 times the above. There is thus a unit of 5 kedets and another of 25 kedets, both connected with iron.

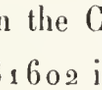
A division of the kedet into thirds is common, and several specimens in this collection will be noticed to be 1/3 of that unit. One sixth is also found, as in nos 31249, 31478, etc., 1/12 (n° 31243) and 1/10 (n° 31211) also occurring sometimes. The common multiples are 1/2, 2, 4, 5, 6, 10, 12, 20, 50, 60, 100, 200, etc. The 60 (n° 31399) is perhaps an adjustment to the Persian Siglus Standard, as its weight, 572 gr. 65, would give 100 sigli of 5 gr. 726. The 12 (n° 31336) may similarly be 20 sigli of 5 gr. 512: or more probably the explanation is as follows :

In the New Empire the *deben*, presumably of this standard, was divided into *twelve* «pieces», as well as into *ten* kedets. This is clearly shown by Gardiner in the *Zeit. Aeg. Spr.*, 43, 1, p. 45. One «piece», therefore weighed about 8 grammes. One hears of these «pieces» in the Bulaq papyrus, n° 11 (Mariette, *Pap. Boulaq*, II, 3) and in papyri from Kahun of the reign of Amenhotep III, and it seems evident that they corresponded to the Assyrian shekel, and were employed as a division of the *deben*, when the *kedet*, or tenth part of that deben, was at 9 grammes or more and therefore too high to be used as the equivalent of the shekel.

There are several inscribed weights of this standard known, some of which may be noticed here. Of Seti I^st^, n° 31251, in this collection, is an interesting specimen, though its weight cannot be properly reckoned, owing to breakages. N° 31252 is a fine weight of Taharqa, though here again breakages prevent anything closer than an estimate of its value. N° 31204 is inscribed with the names of King Necho, and with two strokes followed by two demotic signs; the two strokes probably represent «2 debens», the weight being 190 gr. 35, which would give two debens of 95 gr. 17, and the demotic signs, according to Prof. Spiegelberg, read «one fifth», which indicates that the weight is one fifth of the unit of 951 gr. 75, *i. e.* the hundred kedet or ten deben unit. Of Aahmes II there is a weight in the British Museum (Petrie, *Naukratis*, p. 80) weighing 9 gr. 72. Another specimen inscribed with the name of a scribe of King Psametik weighs 93 grammes, *i. e.* one deben, or 10 kedets of 9 gr. 3 (Golénischeff, *Catalogue Saint-Pétersburg Mus.*, p. 349, n° 2396). A weight inscribed «A'atha son of Heruza» weighs 43 gr. 85, or 5 kedets of 8 gr. 77. The forms of the weights in this standard are described later on, together with those in the other New Empire standards.

THE ALEXANDRIAN STATER STANDARD.

The examples of this standard are numerous, and have been found at Memphis and in the Delta of Egypt. The main unit was a stater ranging from about 10 gr. 95 to 10 grammes. This stater was equal to two drachmæ, and fifty staters, or 100 drachmæ, formed one mina. Prof. Petrie has named the system the «Eighty Grain Standard», but the title is not altogether satisfactory. In his article in the *Encyclopædia Britannica* the same savant points out that weights agreeing to this standard have been found at Antioch, Berytus in Syria, Abydus, and Troy, and the same system is traced in the pre-Persian coinage in Cilicia. Prof. Petrie further shows that the *Alexandrian drachma*, according to abundant literary evidence, stands at about 5 gr. 2 (stater 10 gr. 4). Böckh points out that the *Alexandrian drachma* was 6/5 of the Solonic 4 gr. 35, and was therefore 5 gr. 2.

In the Cairo collection there are two inscribed specimens of this standard. N° 31602 is inscribed  «1/4» and weighs 5 gr. 36, that is to say it represents one drachma of 5 gr. 36 and is 1/4 of a 2 stater unit of 10 gr. 72×2 =21 gr. 44. N° 31398 is marked with the sign A, *i. e.* «one» : it weighs 534 gr. 55, and is thus *one* mina (50 staters of 10 gr. 69).

As regards the date of the standard's introduction into Egypt little can be said. It is probable that it was in use in neighbouring countries during the New Empire and specimens may have found their way into Egypt. N° 31602 mentioned above is possibly to be assigned to the XVIIIth or XIXth dynasty, as it is formed in the old rectangular manner. It has been pointed out, also, that the tribute of the Rutennu, Khita, etc., under Thoutmosis III works into round thousands of units when reduced to this standard (*Encycl. Brit.*). In spite of this, however, so few specimens are found, except at the large centers of late dynasty trade, that one may regard the system as unimportant, though not altogether unknown, before the Saitic period in Egypt. Its original relationship to the Persian siglus Standard is hardly to be doubted, the siglus being about 5 gr. 6 in weight.

THE FOREIGN STANDARDS.

To conclude the above remarks it will be as well to repeat here that the existing material allows one to state that the four standards — the Egyptian Gold Deben Standard, the Phœnician Gold Deben Standard, the Egyptian Kedet Standard, and the Alexandrian Stater Standard — were the *only* systems regularly used in Egypt at any time, from prehistoric ages to the end of the dynastic period, the two Gold standards being exclusively used in the Old and Middle Empire. Of all the known weights it is believed that there is not one dating from the Old and Middle Empire, which does not belong either to the Egyptian or to the Phœnician Gold Deben Standard. Further discoveries may show this to be a wrong view of the matter, but for the present it holds good. It may further be considered that in the New Empire only a few more or less isolated specimens are to be assigned to other standards. Of these other standards there is only one example in the Cairo collection : this is n° 31498 which weighs 1121 grammes, and is thus two Persian minæ (*i. e.* 200 sigli of 5 gr. 605). A few specimens of this standard have been found in Egypt, mainly in the Delta. Of the Assyrian Shekel Standard a few weights are known, their range being from 7 gr. 6 upwards: but, as at 8 grammes they would become indistinguishable from the Egyptian Kedets, it is open to doubt whether they ever existed, though in the form of the above mentioned «pieces» a unit of shekel weight was used. No other examples of foreign standards have been found in Egypt, or rather no others which might not equally well, and with greater probability, be assigned to the regular Egyptian standards.

THE FORMS AND MATERIALS OF THE WEIGHTS.

It has already been mentioned that the weights of the Old and Middle Empires are almost without exception oblong rectangular in form. In the New Empire the vast majority of the weights are circular and domed, the varieties of which form will be seen in the list of forms, letters A to N. The form Y is common; it is derived from the trussed duck weights, which are themselves found in Egypt. Bronze weights in the form of bulls or of bulls heads are not very rare. Other animal forms are found — gazelles, lions, hippopotami, etc. (see the plates in *P. S. B. A.*, December 1901). The barrel form, X, is common; it is probably derived from a serpent's head, n° 7077 in *P. S. B. A.*, December 1901, being an example of the intermediate type. Square weights probably do not occur before late Ptolemaic times.

The standard to which a weight belongs can never be told by its form, but certain general rules may be observed. The oblong rectangular weights are usually Old or Middle Empire, and are perhaps never to be dated later than the XVIIIth dynasty; thus they are usually to be assigned to the Gold standards. The circular domed weights are never found earlier than the XVIIIth dynasty, but they may belong to any of the four New Empire standards, though naturally the vast majority are kedets. Weights in the form of bulls or of bull's heads are never found previous to the XVIIIth dynasty; the weight in the British Museum, in the form of a bull and inscribed with the cartouche of Teta of the VIth dynasty, dates from the New Empire, the inscription being a forgery, as Dr. Budge has pointed out. These and all other irregular forms may belong to any one of the four New Empire standards.

Most weights are made of stone : basalt, granite, limestone, syenite, alabaster, sandstone, diorite, hæmatite, serpentine, porphyry, etc. The animal forms are usually made of bronze, and are sometimes filled with lead. The ovoid weights Form Y (*i. e.* the trussed duck) are usually of porphyry, diorite, or other hard material. The barrel weights (*i. e.* the serpent's head) are generally of hæmatite, syenite, diorite, etc. The circular domed weights are sometimes of bronze, and those with the handle on the upper surface are always so. The majority of the New Empire weights in general are of grey basalt.

It should be remarked that it is a very common error to class objects as weights which in reality have an entirely different use. Paint-rubbers, those thimble shaped objects used for grinding the paint upon the slate palettes, are often mistaken for weights. Amulets and charms in fantastic forms are often

placed with the collection and carefully weighed. Moreover the eyes of the colossal uræi which often adorn the temples, have been found to be made in the form of the flatter variety of the circular domed class of weights, and these must have often dropped out and have been regarded as weights by their modern finders[1]. It will be realized, then, that it is mainly to the inscribed specimens that one must look for information on the questions discussed in the foregoing pages.

THE PRACTICAL APPLICATION OF THE ABOVE REMARKS.

The study of the ancient Egyptian weights does not at first appear to be a matter of much interest or value, and yet there is much to be learnt from it. In the first place a comparison of the systems used in early times in Egypt with those employed by other nations of the same period would lead to some knowledge of archaic trade routes and commercial connections, and the introduction of new standards of weights into the Nile Valley — as for example that of the Phœnician Gold Standard in the VIth dynasty or thereabouts and that of the Kedet Standard in the XVIIIth dynasty — might with profit be traced to their origin. Again, the forms of the weights are of considerable interest in ascertaining the medium of exchange employed in prehistoric days. Professor Ridgeway has shown that the word *pecunia* is literally to be traced to *pecus*, an ox actually being the equivalent of money, and all wealth being counted in units of oxen in the majority of early nations. In Egypt we have weights of the Kedet standard made in the form of oxen which well illustrate this subject. But is there not a field of thought to be explored in regard to the Egyptian weights made in the form of trussed ducks? One has yet to learn where ducks were the medium of exchange. Where, again, did serpent weights originate? — and is one to see in the serpent the genius of the harvest or of the house hold, used to represent a unit of one crop or one house? The study of these weights carries the mind back to a period of human activity so remote that it must of necessity be interesting to the archæologist, revealing as it does the earliest glimpse of international commerce.

Amongst Egyptian records there are many inscriptions which give important information as to the weighing of precious metals. One is the great record of the wars of Thoutmosis III, known as the *Annals*. Here all the gold, silver, copper, lapis lazuli, etc., captured by the Egyptian armies is weighed in debens and

[1] M. Legrain pointed this out.

kedets. Thus we read of silver rings weighing 966 debens 1 kedet, gold of Naharin weighing 45 debens 1/9 kedet, and so on. It is therefore clear that the old gold standard was no longer used for weighing large masses of precious metals or stones. A second document is the Harris Papyrus, in which Rameses III records the amount of gold, silver, copper, etc., belonging to the priests. This again is weighed on the kedet system.

A study of the subject will enable one to judge with some accuracy the actual weight of the precious metal refered to in these and in other inscriptions, and in this respect the knowledge obtained from an examination of this material may be found to be of practical use. Thus, presuming that the deben is 100 grammes in the XVIIIth dynasty, one may read 96 gr. 610 for 966 debens 1 kedet, and 4501 grammes for 45 deben 1/9 kedet, and so on. Those who wish to ascertain the value of these sums in modern reckoning — and here also is a field for useful work — will find the following equation of interest :

About seven acres of land near the lake of Abydos were valued at one deben of silver in the XXIst dynasty. An acre at the present day there is worth about £ 10. Thus, one deben of silver would be worth to the Egyptian what £ 70 is worth to us. This is corroborated by another inscription in which the value of an ox is given as 1/12 of a deben of silver which, on the above analogy, is about £ 6, *i. e.* about what one might expect, oxen probably being slightly more numerous than they are now. A further inscription states that the relation of silver to gold was as 5 is to 3 : thus, if a deben of silver is £ 70, a deben of gold would be about £ 117. When we read, therefore, for example, of 2844 deben of gold from Wawat (Lower Nubia), we may reckon it at about £ 332.448 and so on. If the student will search out a few more inscriptions bearing on the subject, and will obtain as accurate an equation as possible, a flood of light will be able to be thrown on the economic conditions of Egypt, Syria, and the Sudan in ancient times.

NOTE.

In the following catalogue the measurements given indicate the *greatest* length, breadth, height, or diameter, unless otherwise stated. The change in weight is to be interpreted as a loss unless otherwise stated.

CATALOGUE GÉNÉRAL

DES

ANTIQUITÉS ÉGYPTIENNES

DU MUSÉE DU CAIRE.

WEIGHTS AND BALANCES.

I. THE EGYPTIAN GOLD DEBEN OR STATER STANDARD.

31601. Material : Black steatite. — Form : Rectangular, rounded top; smooth polished. — Hieroglyphs incised. — Length 0 m. 016 mill., breadth 0 m. 013 mill., height 0 m. 006 mill. (pl. III).

Preservation : Perfect. — Present weight : 4 gr. 65. — Change : 0. — Ancient weight : 4 gr. 65.

Inscription : .

Value : One third of a Deben or Stater. — Unit : 13 gr. 95.

Bibl. : *Catalogue Maspero*, n° 4501 ; Mariette-Maspero, *Monuments divers*, pl. C, n° 45; Griffith, *Proceedings Society Biblical Archæology*, June 1892, p. 46.

31614. Material : Black basalt. — Form : I. — Diameter 0 m. 021 mill., height 0 m. 015 mill.

Provenance : Naukratis, 1885.

Preservation : Perfect. — Present weight : 10 gr. 38. — Change : 0. — Ancient weight : 10 gr. 38.

Value : Three quarters of a Deben or Stater (*i. e.* 3 drachmæ). — Unit : 13 gr. 84.

Bibl. : Petrie, *Naukratis*, 1885, n° 480.

Catal. du Musée, n° 31971.

31284. Material : Alabaster. — Form : X, base and ends flattened. — Length 0 m. 076 mill., breadth 0 m. 038 mill., height 0 m. 031 mill. (pl. II).

Preservation : Perfect. — Present weight : 138 gr. 35. — Change : 0. — Ancient weight : 138 gr. 35.

Value : Ten Debens or Staters. — Unit : 138 gr. 35.

Bibl. : *Catalogue Maspero*, n° 4358.

31631. Material : Alabaster. — Form : H, rough work, ill-shaped. — Diameter circa 0 m. 030 mill., height 0 m. 026 mill.

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 68 gr. 55. — Change : 0. — Ancient weight : 68 gr. 55.

Value : Five Debens or Staters. — Unit : 13 gr. 71.

31444. Material : Red hæmatite. — Form : X, edges rounded. — Length 0 m. 043 mill., breadth 0 m. 024 mill., height 0 m. 019 mill.

Preservation : Perfect. — Present weight : 40 gr. 3. — Change : 0. — Ancient weight : 40 gr. 3.

Value : Three Debens or Staters. — Unit : 13 gr. 433.

Bibl. : Ink numeral 32779.

31475. Material : Basalt. — Form : N. — Diameter 0 m. 012 mill., height 0 m. 005 mill.

Preservation : Perfect. — Present weight : 1 gr. 34. — Change : 0. — Ancient weight : 1 gr. 34.

Value : One tenth of a Deben or Stater. — Unit : 13 gr. 4.

31320. Material : Basalt. — Form : K, neat work, sharp edges. — Diameter 0 m. 075 mill., height 0 m. 05 cent.

Preservation : Perfect. — Present weight : 526 gr. 95. — Change : 0. — Ancient weight : 526 gr. 95.

Value : Forty Debens or Staters. — Unit : 13 gr. 173.

31332. Material : Basalt. — Form : K. edges sharp. — Diameter 0 m. 055 mill., height 0 m. 038 mill.

Provenance : Karnak.

Preservation : Perfect. — Present weight : 208 gr. 35. — Change : 0. — Ancient weight : 208 gr. 35.

Value : Sixteen Debens or Staters. — Unit : 13 gr. 021.

31306. Material : Red haematite. — Form : X, edges sharp. — Length 0 m. 034 mill., breadth 0 m. 02 cent., height 0 m. 019 mill.

Preservation : Slightly chipped. — Present weight : 25 gr. 85. — Change : 0 gr. 02. — Ancient weight : 25 gr. 87.

Value : Two Debens or Staters. — Unit : 12 gr. 935.

Note : This weight might be 3 Kedets of 8 gr. 623 though the form suggests the gold standard.

31635. Material : Serpentine. — Form : R, corners and edges rounded. — Length 0 m. 028 mill., breadth 0 m. 022 mill., height 0 m. 024 mill.

Provenance : Naukratis, 1885.

Preservation : Almost perfect; very small chips. — Present weight : 51 gr. 54. — Change : 0 gr. 01. — Ancient weight : 51 gr. 55.

Value : Four Debens or Staters. — Unit : 12 gr. 88.

Bibl. : Petrie, *Naukratis*, 1885, n° 451.

31464. Material : Basalt. — Form : K, rought. — Diameter 0 m. 014 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 3 gr. 45. — Change : 0. — Ancient weight : 3 gr. 45.

Value : One quarter of a Deben or Stater (*i. e.* one drachma). — Unit : 12 gr. 8.

31650. Material : Grey basalt. — Form : K. — Diameter 0 m. 01 cent., height 0 m. 006 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 1 gr. 06. — Change : 0. — Ancient weight : 1 gr. 06.

Value : One twelfth of a Deben or Stater (*i. e.* one obol). — Unit : 12 gr. 72.

31641. Material : Black diorite. — Form : A, good work; polished. — Diameter 0 m. 055 mill., height 0 m. 044 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 246 gr. 65. — Change : 0. — Ancient weight : 246 gr. 65.

Value : Twenty Debens or Staters. — Unit : 12 gr. 332.

31483. Material : Bronze. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 013 mill.

Preservation : Corroded. — Present weight : 25 gr. 5. — Change : 1 gr. 0 (gain). — Ancient weight : 24 gr. 5.

Value : Two Debens or Staters. — Unit : 12 gr. 25.

31618. Material : Green basalt. — Form : N. — Diameter 0 m. 008 mill., height 0 m. 004 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 0 gr. 51. — Change : 0. — Ancient weight : 0 gr. 51.

Value : One twenty-fourth of a Deben or Stater (*i. e.* half obol). — Unit : 12 gr. 24.

31610. Material : Grey diorite. — Form : P. — Diameter 0 m. 026 mill., height 0 m. 005-0 m. 009 mill.

Provenance : Naukratis, 1885.

Preservation : One small chip. — Present weight : 12 gr. 15. — Change : 0 gr. 01. — Ancient weight : 12 gr. 16.

Value : One Deben or Stater. — Unit : 12 gr. 16.

Bibl. : Petrie, *Naukratis*, n° 425.

31415. Material : Basalt. — Form : J. — Diameter 0 m. 016 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 6 gr. 02. — Change : 0. — Ancient weight : 6 gr. 02.

Value : Half Deben or Stater. — Unit : 12 gr. 04.

31622. Material : Bronze. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 008 mill.

Provenance : Naukratis. 1886.

Preservation : Corroded. — Present weight : 6 gr. 07. — Change : 0 gr. 05 (loss). — Ancient weight : 6 gr. 02.

Value : Half Deben or Stater. — Unit : 12 gr. 04.

31309. Material : Hæmatite. — Form : O. — Length 0 m. 027 mill., breadth 0 m. 012 mill., height 0 m. 014 mill. (pl. II).

Preservation : Perfect. — Present weight : 11 gr. 9. — Change : 0. — Ancient weight : 11 gr. 9.

Value : One Deben or Stater. — Unit : 11 gr. 9.

31452. Material : Alabaster. — Form : G, roughly shaped. — Diameter 0 m. 023 mill., height 0 m. 018 mill.

Preservation : Perfect. — Present weight : 23 gr. 3. — Change : 0. — Ancient weight : 23 gr. 3.

Value : Two Debens or Staters. — Unit : 11 gr. 65.

31484. Material : Bronze. — Form : K-N. — Diameter 0 m. 02 cent., height 0 m. 012 mill.

Preservation : Corroded. — Present weight : 23 gr. 29. — Change : 0 gr. 03 (gain). — Ancient weight : 23 gr. 26.

Value : Two Debens or Staters. — Unit : 11 gr. 63.

31408. Material : Basalt. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 11 gr. 55. — Change : 0. — Ancient weight : 11 gr. 55.

Value : One Deben. — Unit : 11 gr. 55.

31494. Material : Basalt. — Form : Oblong, rounded ends. On the upper side a coiled snake is carved, covering nearly the whole surface. — Length 0 m. 20 cent., breadth 0 m. 11 cent., height 0 m. 10 cent. (pl. VII).

Preservation : Slightly chipped. — Present weight : 5735 grammes. — Change : 15 grammes. — Ancient weight : 5750 grammes.

Value : 500 Debens or Staters. — Unit : 11 gr. 5.

II. THE PHŒNICIAN GOLD DEBEN OR STATER STANDARD.

31612. Material : Bronze. — Form : N. — Diameter 0 m. 019 mill., height 0 m. 007 mill.

Provenance : Naukratis, 1886.

Preservation : Corroded; decayed on under surface. — Present weight : 15 gr. 4. — Change : 0 gr. 5. — Ancient weight : 15 gr. 9.

Value : One Deben or Stater. — Unit : 15 gr. 9.

31621. Material : Bronze. — Form : N. — Diameter 0 m. 019 mill., height 0 m. 009 mill.

Provenance : Naukratis, 1886.

Preservation : Corroded slightly. — Present weight : 15 gr. 8. — Change : 0 gr. 01 (gain). — Ancient weight : 15 gr. 79.

Value : One Deben or Stater. — Unit : 15 gr. 79.

31473. Material : Bronze. — Form : N. — Diameter 0 m. 022 mill., height 0 m. 005 mill.

Preservation : Slightly corroded. — Present weight : 2 gr. 63. — Change : 0. — Ancient weight : 2 gr. 63.

Value : One sixth of a Deben or Stater. — Unit : 15 gr. 78.

Note : This weight might be one fifth of an Egyptian gold Deben or Stater of 13 gr. 15.

31645. Material : Basalt. — Form : Q, rounded edges; roughly made. — Measurement : About 0 m. 04 cent. square.

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 153 gr. 7. — Change : 0. — Ancient weight : 153 gr. 7.

Value : Ten Debens or Staters. — Unit : 15 gr. 37.

31607. Material : Bronze. — Form : N. — Diameter 0 m. 014 mill., height 0 m. 007 mill. (pl. III).

Provenance : Naukratis, 1886.

Preservation : Corroded. — Present weight : 7 gr. 55. — Change : 0 gr. 01 (gain). — Ancient weight : 7 gr. 54.

Inscription : + on upper surface.

Value : Half a Deben or Stater. — Unit : 15 gr. 08.

Bibl. : Petrie, *Naukratis*, n° 395.

31470. Material : Bronze. — Form : N. — Diameter 0 m. 017 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 7 gr. 41. — Change : 0. — Ancient weight : 7 gr. 41.

Value : Half a Deben or Stater. — Unit : 14 gr. 82.

31471. Material : Bronze. — Form : X. — Length 0 m. 015 mill., breadth 0 m. 006 mill., height 0 m. 005 mill.

Preservation : Perfect. — Present weight : 1 gr. 85. — Change : 0. — Ancient weight : 1 gr. 85.

Value : One eighth of a Deben or Stater. — Unit : 14 gr. 8.

31316. Material : Bronze. — Form : U, upper edges and corners slightly rounded; lower edges sharp. — Length 0 m. 029 mill., breadth 0 m. 02 cent., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 73 gr. 14. — Change : 0. — Ancient weight : 73 gr. 14.

Value : Five Debens or Staters. — Unit : 14 gr. 628.

31311. Material : Basalt. — Form : Y. — Length 0 m. 075 mill., breadth 0 m. 058 mill., height 0 m. 047 mill.

Provenance : Benha.

Preservation : Perfect. — Present weight : 437 gr. 7. — Change : 0. — Ancient weight : 437 gr. 7.

Value : Thirty Debens or Staters. — Unit : 14 gr. 59.

Bibl. : Ink numeral 28599.

31322. Material : Basalt. — Form : K, edges sharp; polished. — Diameter 0 m. 06 cent., height 0 m. 03 cent.

Provenance : Mitrahineh.

Preservation : One chip on under side. — Present weight : 217 gr. 5. — Change : 0 gr. 2. — Ancient weight : 217 gr. 7.

Value : Fifteen Debens or Staters. — Unit : 14 gr. 513.

31276. Material : Bronze. — Form : V. — Length and breadth at top 0 m. 009 mill., length and breadth at bottom 0 m. 011 mill., height 0 m. 01 cent.

Preservation : Slightly corroded and cleaned. — Present weight : 10gr84. — Change : 0 (?). — Ancient weight : 10 gr. 84.

Value : Three quarters of a Deben or Stater (*i. e.* three drachmæ). — Unit : 14 gr. 453.

Bibl. : Maspero, *Catalogue*, n° 4397.

31638. Material : Basalt. — Form : G-H. — Diameter 0 m. 065 mill., height 0 m. 04 cent.

Provenance : Naukratis, 1886.

Preservation : Slightly worn: large dent in upper surface, and slight one in under surface. — Present weight : 356 gr. 15. — Change : 5 grammes. — Ancient weight : 361 gr. 15.

Value : Twenty-five Debens or Staters. — Unit : 14 gr. 446.

31407. Material : Basalt. — Form : O. — Diameter 0 m. 022 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 14 gr. 36. — Change : 0. — Ancient weight : 14 gr. 36.

Value : One Deben or Stater. — Unit : 14 gr. 36.

31655. Material : Hæmatite. — Form : X, rounded edges. — Length 0 m. 037 mill., breadth 0 m. 019 mill., height 0 m. 017 mill.

Preservation : Worn: with small chips. — Present weight : 23 gr. 07. — Change : 0 gr. 03. — Ancient weight : 23 gr. 1.

Value : One and a half Debens or Staters (*i. e.* six drachmæ). — Unit : 14 gr. 14.

Bibl. : Maspero, *Catalogue*, n° 4375.

31282. Material : Pink limestone. — Form : X. — Length 0 m. 034 mill., breadth 0 m. 019 mill., height 0 m. 016 mill.

Preservation : Rubbed down at ends.

Value : One Deben or Stater. — Unit : 14 gr. 04.

Bibl. : Maspero, *Catalogue*, n° 4399.

III. THE EGYPTIAN KEDET STANDARD.

31394. Material : Basalt. — Form : E, neatly shaped. — Diameter 0 m. 06 cent., height 0 m. 029 mill.

Provenance : Saïs, 1898.

Preservation : Perfect. — Present weight : 200 grammes. — Change : 0. — Ancient weight : 200 grammes.

Value : Two Debens (20 Kedets). — Unit : 10 grammes.

31486. Material : Bronze. — Form : I. — Diameter 0 m. 018 mill., height 0 m. 013 mill.

Preservation : Corroded. — Present weight : 20 gr. 05. — Change : 0 gr. 05 (gain). — Ancient weight : 20 grammes.

Value : Two Kedets. — Unit : 10 grammes.

31325. Material : Basalt. — Form : K-I. — Diameter 0 m. 043 mill., height 0 m. 027 mill.

Preservation : Perfect. — Present weight : 99 gr. 7. — Change : 0. — Ancient weight : 99 gr. 7.

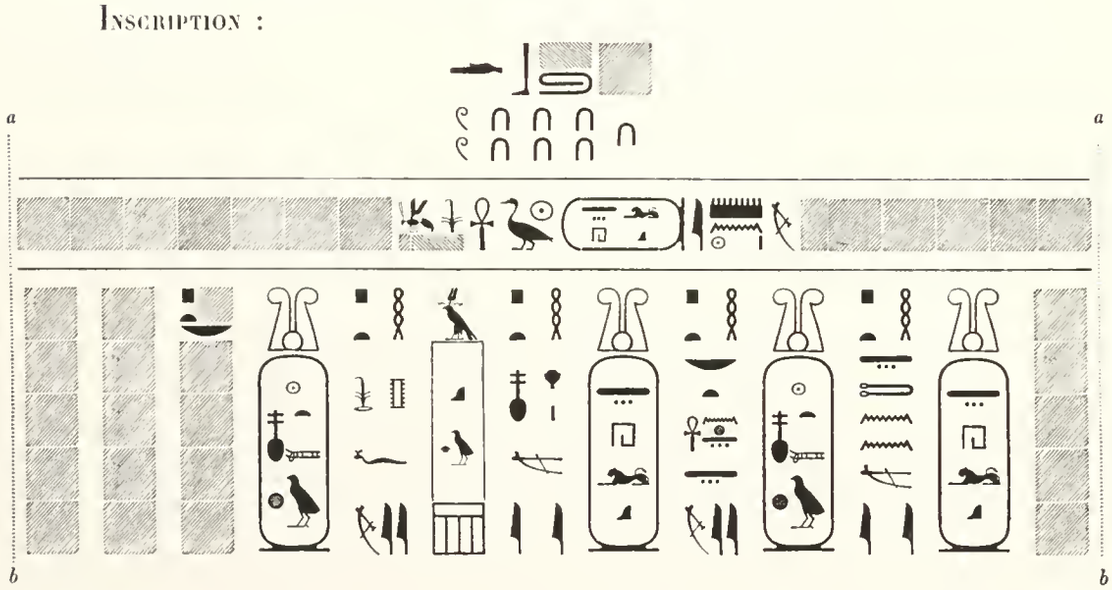
Value : One Deben (10 Kedets). — Unit : 9 gr. 97.

31652. Material : Black basalt. — Form : C, surface well smoothed and rounded. — Diameter 0 m. 27 cent., height 0 m. 22 cent. (pl. V-VI).

Provenance : Mitrahineh.

Preservation : About 12/27 of the whole weight is broken away and lost. — Present weight : 18615 grammes. — Change : 8265 grammes. — Ancient weight : 26880 grammes.

Inscription :



This inscription around the weight is neatly cut in with a thin tool. It gives the value 270 Debens and the name of King Taharka (XXVth dyn.).

Value : 270 Debens (2700 Kedets). — Unit : 9 gr. 955.

31363. Material : Basalt. — Form : K. — Diameter 0 m. 026 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 19 gr. 91. — Change : 0. — Ancient weight : 19 gr. 91.

Value : Two Kedets. — Unit : 9 gr. 955.

31436. Material : Alabaster. — Form : N. — Diameter 0 m. 018 mill., height 0 m. 09 cent.

Preservation : Perfect. — Present weight : 4 gr. 97. — Change : 0. — Ancient weight : 4 gr. 97.

Value : One half Kedet. — Unit : 9 gr. 94.

31417. Material : Basalt. — Form : K. — Diameter 0 m. 017 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 4 gr. 97. — Change : 0. — Ancient weight : 4 gr. 97.

Value : One half Kedet. — Unit : 9 gr. 94.

31360. Material : Basalt. — Form : K-N. — Diameter 0 m. 035 mill., height 0 m. 021 mill.

Preservation : Perfect. — Present weight : 49 gr. 65. — Change : 0. — Ancient weight : 49 gr. 65.

Value : Five Kedets. — Unit : 9 gr. 93.

31634. Material : Basalt. — Form : I, neat work: polished. — Diameter 0 m. 045 mill., height 0 m. 03 cent.

Provenance : Naukratis, 1886.

Preservation : Very slightly chipped. — Present weight : 99 gr. 25. — Change : 0 gr. 02. — Ancient weight : 99 gr. 27.

Value : One Deben (10 Kedets). — Unit : 9 gr. 927.

31450. Material : Basalt. — Form : K-N. — Diameter 0 m. 030 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 19 gr. 85. — Change : 0. — Ancient weight : 19 gr. 85.

Value : Two Kedets. — Unit : 9 gr. 925.

31410. Material : Basalt. — Form : L. — Diameter 0 m. 019 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 9 gr. 92. — Change : 0. — Ancient weight : 9 gr. 92.

Value : One Kedet. — Unit : 9 gr. 92.

31376. Material : Basalt. — Form : I. — Diameter 0 m. 034 mill., height 0 m. 024 mill.

Preservation : Perfect. — Present weight : 49 gr. 45. — Change : 0. — Ancient weight : 49 gr. 45.

Value : Five Kedets. — Unit : 9 gr. 89.

31412. Material : Basalt. — Form : K. — Diameter 0 m. 02 cent., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 9 gr. 87. — Change : 0. — Ancient weight : 9 gr. 87.

Value : One Kedet. — Unit : 9 gr. 87.

31495. Material : Grey granite. — Form : K, rounded edge. — Diameter 0 m. 24 cent., height 0 m. 20 cent.

Preservation : Perfect. — Present weight : 19685 grammes. — Change : 0. — Ancient weight : 19685 grammes.

Value : Two hundred Debens (2000 Kedets). — Unit : 9 gr. 842.

31389. Material : Basalt. — Form : K. — Diameter 0 m. 043 mill., height 0 m. 029 mill.

Preservation : Perfect. — Present weight : 98 gr. 1. — Change : 0. — Ancient weight : 98 gr. 1.

Value : One Deben (10 Kedets). — Unit : 9 gr. 81.

31395. Material : Basalt. — Form : K. — Diameter 0 m. 06 cent., height 0 m. 032 mill.

Preservation : Slightly worn around edges. — Present weight : 235 gr. 25. — Change : 0 gr. 05. — Ancient weight : 235 gr. 3.

Value : Twenty-four Kedets. — Unit : 9 gr. 804.

Note : This weight may have been adjusted to the Persian Sigłus standard as 40 sigli of 5 gr. 882.

31301. Material : Black basalt. — Form : C, rough workmanship. — Diameter 0 m. 009 mill., height 0 m. 006 mill.

Preservation : Perfect. — Present weight : 0 gr. 98. — Change : 0. — Ancient weight : 0 gr. 98.

Value : One tenth of a Kedet. — Unit : 9 gr. 8.

Note : It is possible that this weight belongs to some other system, but 1/10 is a common fraction in the Kedet Standard.

Bibl. : *Catalogue Maspero*, n° 4512.

31330. Material : Grey basalt. — Form : S, rounded edges and corners. — Measurement : 0 m. 035-0 m. 038 mill. square.

Preservation : Perfect. — Present weight : 195 gr. 9. — Change : 0. — Ancient weight : 195 gr. 9.

Value : Two Debens (20 Kedets). — Unit : 9 gr. 795.

31660. Material : Basalt. — Form : K. — Diameter 0 m. 028 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 19 gr. 57. — Change : 0. — Ancient weight : 19 gr. 57.

Value : Two Kedets. — Unit : 9 gr. 78.

Bibl. : *Catalogue Maspero*, n° 4380.

31619. Material : Bronze. — Form : K. — Diameter 0 m. 008 mill., height 0 m. 005 mill.

Provenance : Naukratis, 1886.

Preservation : Corroded. — Present weight : 1 gr. 64. — Change : 0 gr. 01 (gain). — Ancient weight : 1 gr. 63.

Value : One sixth of a Kedet. — Unit : 9 gr. 78.

31435. Material : Alabaster. — Form : N. — Diameter 0 m. 02 cent., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 4 gr. 88. — Change : 0. — Ancient weight : 4 gr. 88.

Value : One half Kedet. — Unit : 9 gr. 76.

31337. Material : Basalt. — Form : K-N. — Diameter 0 m. 046 mill., height 0 m. 024 mill.

Preservation . Perfect. — Present weight : 97 gr. 55. — Change : 0. — Ancient weight : 97 gr. 55.

Value : One Deben (10 Kedets). — Unit : 9 gr. 755.

31411. Material : Basalt. — Form : K. — Diameter 0 m. 02 cent., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 9 gr. 75. — Change : 0. — Ancient weight : 9 gr. 75.

Value : One Kedet. — Unit : 9 gr. 75.

31472. Material : Bronze. — Form : K. — Diameter 0 m. 011 mill., height 0 m. 006 mill.

Preservation : Perfect. — Present weight : 3 gr. 25. — Change : 0. — Ancient weight : 3 gr. 25.

Value : One third of a Kedet. — Unit : 9 gr. 75.

31466. Material : Basalt. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 3 gr. 25. — Change : 0. — Ancient weight : 3 gr. 25.

Value : One third of a Kedet. — Unit : 9 gr. 75.

31331. Material : Basalt. — Form : Y. — Length 0 m. 064 mill., breadth 0 m. 045 mill., height 0 m. 032 mill. (pl. II).

Preservation : Slight loss at top and bottom. — Present weight : 194 gr. 3. — Change : 0 gr. 2. — Ancient weight : 194 gr. 5.

Value : Two Debens (20 Kedets). — Unit : 9 gr. 725.

31289. Material : Iron. — Form : D. rough work. — Diameter 0 m. 025 mill., height 0 m. 021 mill. (pl. III).

Preservation : Perfect. — Present weight : 48 gr. 6. — Change : 0. — Ancient weight : 48 gr. 6.

Inscription : |

Value : One Five-Kedet unit of unknown name. — Unit : (One kedet) 9 gr. 72.

Note : See remarks in introduction.

Bibl. : *Catalogue Maspero*, n° 4369.

31339. Material : Basalt. — Form : L. — Diameter 0 m. 04 cent., height 0 m. 029 mill.

Preservation : Worn. — Present weight : 97 gr. 15. — Change : 0 gr. 01. — Ancient weight : 97 gr. 16.

Value : One Deben (10 Kedets). — Unit : 9 gr. 716.

31324. Material : Basalt. — Form : J. sharp edges. — Diameter 0 m. 053 mill., height 0 m. 036 mill.

Provenance : Esneh.

Preservation : Perfect. — Present weight : 194 gr. 1. — Change : 0. — Ancient weight : 194 gr. 1.

Value : Two Debens (20 Kedets). — Unit : 9 gr. 705.

31340. Material : Basalt. — Form : A. — Diameter 0 m. 037 mill., height 0 m. 031 mill.

Preservation : Perfect. — Present weight : 97 gr. 05. — Change : 0. — Ancient weight : 97 gr. 05.

Value : One Deben (10 Kedets). — Unit : 9 gr. 705.

31382. Material : Grey granite. — Form : D. — Diameter 0 m. 032 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 48 gr. 51. — Change : 0. — Ancient weight : 48 gr. 51.

Value : Five Kedets. — Unit : 9 gr. 702.

31630. Material : Volcanic ash. — Form : P. roughly shaped. — Diameter 0 m. 016 mill., height 0 m. 007 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 4 gr. 85. — Change : 0. — Ancient weight : 4 gr. 85.

Value : One half Kedet. — Unit : 9 gr. 7.

31312. Material : Basalt. — Form : I, neat work: polished. — Diameter 0 m. 043 mill., height 0 m. 036 mill.

Provenance : Esneh.

Preservation : Perfect. — Present weight : 96 gr. 97. — Change : 0. — Ancient weight : 96 gr. 97.

Value : One Deben (10 Kedets). — Unit : 9 gr. 697.

31353. Material : Quartzite sandstone. — Form : K-N. — Diameter 0 m. 032 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 48 gr. 45. — Change : 0. — Ancient weight : 48 gr. 45.

Value : Five Kedets. — Unit : 9 gr. 69.

31348. Material : Basalt. — Form : K-N. — Diameter 0 m. 075 mill., height 0 m. 025 mill.

Preservation : Perfect. — Present weight : 96 gr. 81. — Change : 0. — Ancient weight : 96 gr. 81.

Value : One Deben (10 Kedets). — Unit : 9 gr. 681.

31493. Material : Pink granite. — Form : K. — Diameter 0 m. 21 cent., height 0 m. 13 cent.

Preservation : Slightly worn. — Present weight : 9670 grammes. — Change : 10 grammes. — Ancient weight : 9680 grammes.

Value : One hundred Debens (1000 Kedets). — Unit : 9 gr. 68.

Bibl. : Ink numeral 27696 (?).

31347. Material : Basalt, burnt. — Form : G. — Diameter 0 m. 037 mill., height 0 m. 034 mill.

Preservation : Perfect. — Present weight : 96 gr. 79. — Change : 0. — Ancient weight : 96 gr. 79.

Value : One Deben (10 Kedets). — Unit : 9 gr. 679.

31359. Material : Basalt. — Form : L. — Diameter 0 m. 04 cent., height 0 m. 03 cent.

Provenance : Karnak.

Preservation : Perfect. — Present weight : 96 gr. 75. — Change : 0. — Ancient weight : 96 gr. 75.

Value : One Deben (10 Kedets). — Unit : 9 gr. 675.

31275. Material : Basalt. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 9 gr. 67. — Change : 0. — Ancient weight : 9 gr. 67.

Value : 1 Kedet. — Unit : 9 gr. 67.

Bibl. : *Catalogue Maspero*, n° 4396.

31273. Material : Carnelian. — Form : X. — Length 0 m. 035 mill., breadth 0 m. 016 mill., height 0 m. 016 mill.

Preservation : Somewhat rubbed at either end. — Present weight : 9 gr. 65. — Change : 0 gr. 01. — Ancient weight : 9 gr. 66.

Value : 1 Kedet. — Unit : 9 gr. 66.

Bibl. : *Catalogue Maspero*, n° 4394.

31308. Material : Hæmatite. — Form : O. — Length 0 m. 03 cent., breadth 0 m. 015 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 9 gr. 66. — Change : 0. — Ancient weight : 9 gr. 66.

Value : 1 Kedet. — Unit : 9 gr. 66.

31433. Material : Basalt. — Form : J. — Diameter 0 m. 016 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 4 gr. 83. — Change : 0. — Ancient weight : 4 gr. 83.

Value : 1/2 Kedet. — Unit : 9 gr. 66.

31288. Material : Black basalt. — Form : K-N. — Diameter 0 m. 038 mill., height 0 m. 021 mill.

Preservation : Perfect, except for small chip. — Present weight : 48 gr. 25. — Change : 0 gr. 01. — Ancient weight : 48 gr. 26.

Value : 5 Kedets. — Unit : 9 gr. 65.

Bibl. : *Catalogue Maspero*, n° 4368.

31663. Material : Black basalt. — Form : K. — Diameter 0 m. 027 mill., height 0 m. 018 mill.

Preservation : Perfect. — Present weight : 19 gr. 3. — Change : 0. — Ancient weight : 19 gr. 3.

Value : 2 Kedets. — Unit : 9 gr. 65.

Bibl. : *Catalogue Maspero*, n° 4371.

31335. Material : Grey granite. — Form : K. — Diameter 0 m. 044 mill., height 0 m. 029 mill.

Preservation : Perfect. — Present weight : 96 gr. 4. — Change : 0. — Ancient weight : 96 gr. 4.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 64.

31378. Material : Basalt. — Form : A-B. — Diameter 0 m. 025 mill., height 0 m. 022 mill.

Preservation : Perfect. — Present weight : 48 gr. 13. — Change : 0. — Ancient weight : 48 gr. 13.

Value : 5 Kedets. — Unit : 9 gr. 626.

31383. Material : Basalt. — Form : N. — Diameter 0 m. 037 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 38 gr. 43. — Change : 0. — Ancient weight : 38 gr. 43.

Value : 4 Kedets. — Unit : 9 gr. 607.

31321. Material : Grey granite. — Form : K-L. — Diameter 0 m. 115 mill., height 0 m. 075 mill.

Provenance : Memphis.

Preservation : One breakage on upper surface; worn. — Present weight : 1908 grammes. — Change : 12 grammes. — Ancient weight : 1920 grammes.

Inscription : A demotic inscription on one side very roughly cut.

Value : 20 Debens (200 Kedets). — Unit : 9 gr. 6.

Bibl. : *Catalogue Maspero*, n° 4354.

31287. Material : Alabaster. — Form : E. — Diameter at base 0 m. 033 mill., height 0 m. 021 mill.

Preservation : Perfect. — Present weight : 48 gr. 3. — Change : 0. — Ancient weight : 48 gr. 3.

Value : 5 Kedets. — Unit : 9 gr. 6.

Bibl. : *Catalogue Maspero*, n° 4367.

31319. Material : Bronze. — Form : L-N. — Diameter 0 m. 017 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 19 gr. 2. — Change : 0. — Ancient weight : 19 gr. 2.

Value : 2 Kedets. — Unit : 9 gr. 6.

31366. Material : Basalt. — Form : K-N. — Diameter 0 m. 025 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 19 gr. 2. — Change : 0. — Ancient weight : 19 gr. 2.

Value : 2 Kedets. — Unit : 9 gr. 6.

31462. Material : Basalt. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 3 gr. 2. — Change : 0. — Ancient weight : 3 gr. 2.

Value : 1/3 of a Kedet. — Unit : 9 gr. 6.

31643. Material : Black and white granite. — Form : L-O. — Diameter 0 m. 009 mill., height 0 m. 005 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 0 gr. 8. — Change : 0. — Ancient weight : 0 gr. 8.

Value : 1/12 of a Kedet. — Unit : 9 gr. 6.

1930. Material : Bronze with lead filling. — Form : This weight is made in the form of a heart ✦ with a handle attached to the top. — Height 0 m. 078 mill., breadth 0 m. 06 cent., thickness 0 m. 035 mill. (pl. IX).

Preservation : Corroded and cracked. — Present weight : 479 gr. 5. — Change : Equal gain and loss. — Ancient weight : 479 gr. 5.

Value : 5 Debens (50 Kedets). — Unit : 9 gr. 59.

Bibl. : *Catalogue of Building Materials*, n° 1930.

31418. Material : Basalt. — Form : D. — Diameter 0 m. 017 mill., height 0 m. 014 mill.

Preservation : Perfect. — Present weight : 9 gr. 58. — Change : 0. — Ancient weight : 9 gr. 58.

Value : 1 Kedet. — Unit : 9 gr. 58.

31364. Material : Basalt. — Form : K-N. — Diameter 0 m. 028 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 19 gr. 15. — Change : 0. — Ancient weight : 19 gr. 15.

Value : 2 Kedets. — Unit : 9 gr. 575.

31399. Material : Grey granite. — Form : M, roughly shaped. — Diameter 0 m. 085 mill., height 0 m. 035 mill.

Provenance : Medinet Habu.

Preservation : Chipped round edges. — Present weight : 572 gr. 65. — Change : 5 grammes. — Ancient weight : 577 gr. 65.

Value : 6 Debens (60 Kedets). — Unit : 9 gr. 627.

Note : This weight is probably adjusted to 100 Persian sigli of 5 gr. 776.

31385. Material : Grey diorite. — Form : M. — Diameter 0 m. 038 mill., height 0 m. 03 cent.

Provenance : Mitrahineh.

Preservation : Perfect. — Present weight : 95 gr. 4. — Change : 0. — Ancient weight : 95 gr. 4.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 54.

31609. Material : Limestone. — Form : D. — Diameter 0 m. 034 mill., height 0 m. 026 mill.

Provenance : Naukratis. 1886.

Preservation : Perfect. — Present weight : 47 gr. 65. — Change : 0. — Ancient weight : 47 gr. 65.

Value : 5 Kedets. — Unit : 9 gr. 53.

31401. Material : Basalt. — Form : B. — Diameter 0 m. 02 cent., height 0 m. 018 mill.

Preservation : Perfect. — Present weight : 19 gr. 05. — Change : 0. — Ancient weight : 19 gr. 05.

Value : 2 Kedets. — Unit : 9 gr. 525.

31392. Material : Bronze. — Form : K. — Diameter 0 m. 032 mill., height 0 m. 025 mill.

Preservation : Much corroded. — Present weight : 97 gr. 7. — Change : 2 gr. 5 (gain). — Ancient weight : 95 gr. 2.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 52.

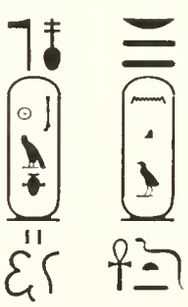
31664. Material : Bronze. — Form : I. — Diameter 0 m. 017 mill., height 0 m. 012 mill.

Preservation : Slightly corroded and cleaned. — Present weight : 19 gr. 05. — Change : Equal gain and loss. — Ancient weight : 19 gr. 05.

Value : 2 Kedets. — Unit : 9 gr. 52.

Bibl. : *Catalogue Maspero*, n° 4370.

31604. Material : Grey granite. — Form : C, sides and top smooth; base rough. — Diameter at base 0 m. 045 mill., height 0 m. 035 mill. (pl. III).



Provenance : Sais.

Preservation : Slightly chipped along edge of base. — Present weight : 190 gr. 25. — Change : 0 gr. 1. — Ancient weight : 190 gr. 35.

Inscription : Hieroglyphs cut on upper surface.

Value : 2 Debens (20 Kedets). — Unit : 9 gr. 517.

Bibl. : *Journal d'entrée du Musée*, n° 29549.

31373. Material : Basalt. — Form : J. — Diameter 0 m. 033 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 47 gr. 57. — Change : 0. — Ancient weight : 47 gr. 57.

Value : 5 Kedets. — Unit : 9 gr. 514.

31658. Material : Alabaster. — Form : I. — Diameter 0 m. 027 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 19 gr. 02. — Change : 0. — Ancient weight : 19 gr. 02.

Value : 2 Kedets. — Unit : 9 gr. 51.

Bibl. : *Catalogue Maspero*, n° 4378.

31295. Material : Bronze. — Form : D. — Diameter 0 m. 01 cent., height 0 m. 007 mill.

Preservation : Slight corrosion. — Present weight : 3 gr. 17. — Change : 0. — Ancient weight : 3 gr. 17.

Value : 1/3 of a Kedet. — Unit : 9 gr. 51.

31380. Material : Basalt. — Form : G-G. — Diameter 0 m. 035 mill., height 0 m. 024 mill.

Preservation : Perfect. — Present weight : 47 gr. 5. — Change : 0. — Ancient weight : 47 gr. 5.

Value : 5 Kedets. — Unit : 9 gr. 5.

31377. Material : Alabaster. — Form : K. — Diameter 0 m. 036 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 47 gr. 48. — Change : 0. — Ancient weight : 47 gr. 48.

Value : 5 Kedets. — Unit : 9 gr. 496.

31367. Material : Basalt. — Form : K. — Diameter 0 m. 024 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 18 gr. 99. — Change : 0. — Ancient weight : 18 gr. 99.

Value : 2 Kedets. — Unit : 9 gr. 495.

31379. Material : Basalt. — Form : K. — Diameter 0 m. 035 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 47 gr. 47. — Change : 0. — Ancient weight : 47 gr. 47.
Value : 5 Kedets. — Unit : 9 gr. 494.

31488. Material : Bronze. — Form : K-N. — Diameter 0 m. 011 mill., height 0 m. 008 mill.

Preservation : Corroded. — Present weight : 4 gr. 75. — Change : 0 gr. 01 (gain). — Ancient weight : 4 gr. 74.
Value : 1/2 Kedet. — Unit : 9 gr. 48.

31468. Material : Alabaster. — Form : N. — Diameter 0 m. 016 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 3 gr. 16. — Change : 0. — Ancient weight : 3 gr. 16.
Value : 1/3 of a Kedet. — Unit : 9 gr. 48.

31649. Material : Grey basalt. — Form : K. — Diameter 0 m. 012 mill., height 0 m. 005 mill.

Provenance : Defenneh, 1886.
Preservation : Perfect. — Present weight : 1 gr. 58. — Change : 0. — Ancient weight : 1 gr. 58.
Value : 1/6 of a Kedet. — Unit : 9 gr. 48.

31351. Material : Basalt. — Form : B-I, roughly shaped. — Diameter 0 m. 039-0 m. 042 mill., height 0 m. 025 mill.

Preservation : Perfect. — Present weight : 94 gr. 75. — Change : 0. — Ancient weight : 94 gr. 75.
Value : 1 Deben (10 Kedets). — Unit : 9 gr. 475.

31405. Material : Basalt. — Form : K-N. — Diameter 0 m. 026 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 18 gr. 95. — Change : 0. — Ancient weight : 18 gr. 95.

Value : 2 Kedets. — Unit : 9 gr. 475.

31422. Material : Basalt. — Form : F. — Diameter 0 m. 022 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 9 gr. 47. — Change : 0. — Ancient weight : 9 gr. 47.

Value : 1 Kedet. — Unit : 9 gr. 47.

31371. Material : Green marble. — Form : K. — Diameter 0 m. 035 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 47 gr. 32. — Change : 0. — Ancient weight : 47 gr. 32.

Value : 5 Kedets. — Unit : 9 gr. 464.

31387. Material : Basalt. — Form : K. — Diameter 0 m. 044 mill., height 0 m. 025 mill.

Provenance : Mitrahineh.

Preservation : One small chip. — Present weight : 94 gr. 6. — Change : 0 gr. 01. — Ancient weight : 94 gr. 61.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 461.

31669. Material : Black basalt. — Form : I. — Diameter 0 m. 02 cent., height 0 m. 014 mill.

Preservation : Perfect. — Present weight : 9 gr. 46. — Change : 0. — Ancient weight : 9 gr. 46.

Value : 1 Kedet. — Unit : 9 gr. 46.

Bibl. : *Catalogue Maspero*, n° 4389.
Catal. du Musée, n° 31971.

31434. Material : Basalt. — Form : N. — Diameter 0 m. 019 mill., height 0 m. 09 cent.

Preservation : Perfect. — Present weight : 4 gr. 73. — Change : 0. — Ancient weight : 4 gr. 73.

Value : 1/2 Kedet. — Unit : 9 gr. 46.

31446. Material : Porphyry. — Form : K. — Diameter 0 m. 023 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 9 gr. 43. — Change : 0. — Ancient weight : 9 gr. 43.

Value : 1 Kedet. — Unit : 9 gr. 43.

31637. Material : Basalt. — Form : S. rounded edges. — Measurement : 0 m. 04 cent. square.

Provenance : Naukratis, 1885.

Preservation : Perfect. — Present weight : 188 gr. 45. — Change : 0. — Ancient weight : 188 gr. 45.

Value : 2 Debens (20 Kedets). — Unit : 9 gr. 422.

31323. Material : Basalt. — Form : K, edges sharp. — Diameter 0 m. 056 mill., height 0 m. 035 mill.

Preservation : Worn around lower edge. — Present weight : 188 gr. 4. — Change : 0 gr. 05. — Ancient weight : 188 gr. 45.

Value : 2 Debens (20 Kedets). — Unit : 9 gr. 422.

31654. Material : Hæmatite. — Form : X, rounded edges. — Length 0 m. 075 m., breadth 0 m. 045 mill., height 0 m. 032 mill.

Preservation : Two small chips. — Present weight : 188 gr. 3. — Change : 0 gr. 01. — Ancient weight : 188 gr. 31.

Value : 20 Debens (200 Kedets). — Unit : 9 gr. 415.

Bibl. : *Catalogue Maspero*, n° 4360.

31342. Material : Basalt. — Form : A, polished on upper and lower surface. — Diameter 0 m. 044 mill., height 0 m. 039 mill.

Preservation : Perfect. — Present weight : 188 gr. 3. — Change : 0. — Ancient weight : 188 gr. 3.

Value : 9 Debens (20 Kedets). — Unit : 9 gr. 415.

31402. Material : Basalt. — Form : B. — Diameter 0 m. 021 mill., height 0 m. 018 mill.

Preservation : Perfect. — Present weight : 18 gr. 8. — Change : 0. — Ancient weight : 18 gr. 8.

Value : 2 Kedets. — Unit : 9 gr. 4.

31442. Material : Basalt. — Form : F-O. — Diameter 0 m. 022 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 9 gr. 4. — Change : 0. — Ancient weight : 9 gr. 4.

Value : 1 Kedet. — Unit : 9 gr. 4.

31272. Material : Alabaster. — Form : I. — Diameter 0 m. 022 mill., height 0 m. 014 mill.

Preservation : Perfect. — Present weight : 9 gr. 4. — Change : 0. — Ancient weight : 9 gr. 4.

Value : 1 Kedet. — Unit : 9 gr. 4.

Bibl. : *Catalogue Maspero*, n° 4393.

31666. Material : Bronze. — Form : I. — Diameter 0 m. 013 mill., height 0 m. 012 mill.

Preservation : Slightly corroded and cleaned. — Present weight : 9 gr. 4. — Change : 0. — Ancient weight : 9 gr. 4.

Value : 1 Kedet. — Unit : 9 gr. 4.

Bibl. : *Catalogue Maspero*, n° 4386.

31416. Material : Basalt. — Form : I. — Diameter 0 m. 015 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 4 gr. 7. — Change : 0. — Ancient weight : 4 gr. 7.

Value : 1/2 Kedet. — Unit : 9 gr. 4.

31611. Material : Green basalt. — Form : K, roughly shaped. — Diameter 0 m. 01 cent., height 0 m. 005 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 0 gr. 94. — Change : 0. — Ancient weight : 0 gr. 94.

Value : 1/10 of a Kedet. — Unit : 9 gr. 4.

31313. Material : Basalt. — Form : A. — Diameter 0 m. 038 mill., height 0 m. 034 mill.

Preservation : Perfect. — Present weight : 93 gr. 9. — Change : 0. — Ancient weight : 93 gr. 9.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 39.

31615. Material : Black veined limestone. — Form : N, badly shaped. — Diameter 0 m. 022 mill., height 0 m. 011 mill.

Provenance : Defenneh, 1886.

Preservation : Slightly worn. — Present weight : 9 gr. 38. — Change : 0 gr. 01. — Ancient weight : 9 gr. 39.

Value : 1 Kedet. — Unit : 9 gr. 39.

31341. Material : Basalt. — Form : A. — Diameter 0 m. 047 mill., height 0 m. 031 mill.

Preservation : Perfect. — Present weight : 93 gr. 88. — Change : 0. — Ancient weight : 93 gr. 88.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 388.

31345. Material : Basalt. — Form : N. — Diameter 0 m. 045 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 93 gr. 8. — Change : 0. — Ancient weight : 93 gr. 8.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 38.

31362. Material : Basalt. — Form : K. — Diameter 0 m. 024 mill., height 0 m. 019 mill.

Preservation : Perfect. — Present weight : 18 gr. 76. — Change : 0. — Ancient weight : 18 gr. 76.

Value : 2 Kedets. — Unit : 9 gr. 38.

31646. Material : Basalt. — Form : K. — Diameter 0 m. 023 mill., height 0 m. 013 mill.

Provenance : Naukratis. 1886.

Preservation : Perfect. — Present weight : 9 gr. 38. — Change : 0. — Ancient weight : 9 gr. 38.

Value : 1 Kedet. — Unit : 9 gr. 4.

31432. Material : Pebble. — Form : K. — Diameter 0 m. 016 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 4 gr. 64. — Change : 0. — Ancient weight : 4 gr. 64.

Value : 1/2 Kedet. — Unit : 9 gr. 38.

31370. Material : Basalt. — Form : F. — Diameter 0 m. 023 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 18 gr. 75. — Change : 0. — Ancient weight : 18 gr. 75.

Value : 2 Kedets. — Unit : 9 gr. 375.

31413. Material : Basalt. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 9 gr. 37. — Change : 0. — Ancient weight : 9 gr. 37.

Value : 1 Kedet. — Unit : 9 gr. 37.

31354. Material : Basalt. — Form : K-L. — Diameter 0 m. 052 mill., height 0 m. 038 mill.

Preservation : Worn. — Present weight : 187 gr. 2. — Change : 0 gr. 1. — Ancient weight : 187 gr. 3.

Value : 2 Debens (20 Kedets). — Unit : 9 gr. 365.

31642. Material : Grey basalt. — Form : A, neat work: polished. — Diameter 0 m. 04 cent., height 0 m. 035 mill.

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 93 gr. 65. — Change : 0. — Ancient weight : 93 gr. 65.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 365.

31317. Material : Basalt. — Form : K-N. — Diameter 0 m. 045 mill., height 0 m. 028 mill.

Preservation : Perfect. — Present weight : 93 gr. 64. — Change : 0. — Ancient weight : 93 gr. 64.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 364.

31338. Material : Basalt. — Form : K. — Diameter 0 m. 044 mill., height 0 m. 027 mill.

Preservation : Slightly chipped. — Present weight : 93 gr. 6. — Change : 0 gr. 02. — Ancient weight : 93 gr. 62.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 362.

31659. Material : Black basalt. — Form : K. — Diameter 0 m. 026 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 18 gr. 72. — Change : 0. — Ancient weight : 18 gr. 72.

Value : 2 Kedets. — Unit : 9 gr. 36.

Bibl. : *Catalogue Maspero*, n° 4379.

31425. Material : Basalt. — Form : G. — Diameter 0 m. 016 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 4 gr. 68. — Change : 0. — Ancient weight : 4 gr. 68.

Value : 1/2 Kedet. — Unit : 9 gr. 36.

31296. Material : Bronze. — Form : G. — Diameter 0 m. 009 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 3 gr. 12. — Change : 0. — Ancient weight : 3 gr. 12.

Value : 1/3 of a Kedet. — Unit : 9 gr. 36.

Bibl. : *Catalogue Maspero*, n° 4507.

31423. Material : Basalt. — Form : I. — Diameter 0 m. 019 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 9 gr. 35. — Change : 0. — Ancient weight : 9 gr. 35.

Value : 1 Kedet. — Unit : 9 gr. 35.

31290. Material : Bronze. — Form : K. — Diameter 0 m. 033 mill., height 0 m. 022 mill.

Preservation : Corroded and cleaned. — Present weight : 93 gr. 35. — Change : 0. — Ancient weight : 93 gr. 35.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 335.

Bibl. : *Catalogue Maspero*, n° 4363.

31457. Material : Basalt. — Form : D-G, rough. — Diameter 0 m. 015 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 4 gr. 66. — Change : 0. — Ancient weight : 4 gr. 66.

Value : 1/2 Kedet. — Unit : 9 gr. 32.

31465. Material : Basalt. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 3 gr. 1. — Change : 0. — Ancient weight : 3 gr. 1.

Value : 1/3 of a Kedet. — Unit : 9 gr. 3.

31293. Material : Alabaster. — Form : O, roughly shaped. — Diameter 0 m. 014 mill., height 0 m. 008 mill.

Preservation : Perfect. — Present weight : 3 gr. 1. — Change : 0. — Ancient weight : 3 gr. 1.

Value : 1/3 of a Kedet. — Unit : 9 gr. 3.

Bibl. : *Catalogue Maspero*, n° 4504.

31627. Material : Black basalt. — Form : K. — Diameter 0 m. 014 mill., height 0 m. 009 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 3 gr. 1. — Change : 0. — Ancient weight : 3 gr. 1.

Value : 1/3 of a Kedet. — Unit : 9 gr. 3.

31478. Material : Bronze. — Form : P. — Diameter 0 m. 008 mill., height 0 m. 003 mill.

Preservation : Perfect. — Present weight : 1 gr. 55. — Change : 0. — Ancient weight : 1 gr. 55.

Value : 1/6 of a Kedet. — Unit : 9 gr. 3.

31487. Material : Bronze. — Form : O. — Diameter 0 m. 015 mill., height 0 m. 008 mill.

Preservation : Perfect. — Present weight : 9 gr. 29. — Change : 0. — Ancient weight : 9 gr. 29.

Value : 1 Kedet. — Unit : 9 gr. 29.

31365. Material : Basalt. — Form : K-N. — Diameter 0 m. 026 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 18 gr. 57. — Change : 0. — Ancient weight : 18 gr. 57.

Value : 2 Kedets. — Unit : 9 gr. 285.

31286. Material : Bronze. — Form : I. — Diameter 0 m. 023 mill., height 0 m. 015 mill.

Preservation : Corroded and cleaned. — Present weight : 46 gr. 15. — Change : 0 gr. 2. — Ancient weight : 46 gr. 35.

Value : 5 Kedets. — Unit : 9 gr. 27.

Bibl. : *Catalogue Maspero*, n° 4366.

31318. Material : Bronze. — Form : K-I. — Diameter 0 m. 024 mill., height 0 m. 015 mill.

Preservation : Corroded and cleaned. — Present weight : 46 gr. 28. — Change : 0. — Ancient weight : 46 gr. 28.

Value : 5 Kedets. — Unit : 9 gr. 257.

31461. Material : Basalt. — Form : K-N. — Diameter 0 m. 013 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 3 gr. 08. — Change : 0. — Ancient weight : 3 gr. 08.

Value : 1/3 of a Kedet. — Unit : 9 gr. 24.

31463. Material : Basalt. — Form : V. — Diameter 0 m. 015 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 3 gr. 08. — Change : 0. — Ancient weight : 3 gr. 08.

Value : 1/3 of a Kedet. — Unit : 9 gr. 24.

31356. Material : Grey granite. — Form : A-B. — Diameter 0 m. 062 mill., height 0 m. 051 mill.

Preservation : Chip on upper surface. — Present weight : 460 gr. 5. — Change : 1 gramme. — Ancient weight : 461 gr. 5.

Value : 5 Debens (50 Kedets). — Unit : 9 gr. 23.

31305. Material : Copper. — Form : X, edges slightly rounded. — Length 0 m. 042 mill., breadth 0 m. 026 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 92 gr. 24. — Change : 0. — Ancient weight : 92 gr. 24.

Value : 1 Deben (10 Kedets). — Unit : 9 gr. 224.

31485. Material : Bronze. — Form : K-N. — Diameter 0 m. 018 mill., height 0 m. 006 mill.

Preservation : Corroded. — Present weight : 18 gr. 45. — Change : 0 gr. 01 (gain). — Ancient weight : 18 gr. 44.

Value : 2 Kedets. — Unit : 9 gr. 22.

31428. Material : Basalt. — Form : I-L. From one side to the other a small hole is drilled 0 m. 001 mill. in diameter. — Diameter 0 m. 014 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 4 gr. 6. — Change : 0. — Ancient weight : 4 gr. 6.

Value : 1/2 Kedet. — Unit : 9 gr. 2.

31307. Material : Bronze. — Form : X, ends sharp. — Length 0 m. 035 mill., breadth 0 m. 02 cent., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 45 gr. 95. — Change : 0. — Ancient weight : 45 gr. 95.

Value : 5 Kedets. — Unit : 9 gr. 19.

31336. Material : Basalt. — Form : K. — Diameter 0 m. 045 mill., height 0 m. 028 mill.

Preservation : Perfect. — Present weight : 110 gr. 25. — Change : 0. — Ancient weight : 110 gr. 25.

Value : 12 Kedets. — Unit : 9 gr. 187.

Note : This weight might have the value 12 Kedets in order that it should be used in dealing with Persian merchants, as 20 Persian sigli of 5 gr. 512.

31624. Material : Porphyry. — Form : L. — Diameter 0 m. 011 mill., height 0 m. 007 mill.

Provenance : Defenneh, 1886.

Preservation : One minute chip. — Present weight : 1 gr. 53. — Change : 0 (practically). — Ancient weight : 1 gr. 53.

Value : 1/6 of a Kedet. — Unit : 9 gr. 18.

31447. Material : Basalt. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 015 mill.

Preservation : Chip lost from upper surface and afterwards polished down. — Present weight : 9 gr. 15. — Change : 0 gr. 01. — Ancient weight : 9 gr. 16.

Value : 1 Kedet. — Unit : 9 gr. 16.

31426. Material : Basalt. — Form : N. — Diameter 0 m. 017 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 4 gr. 58. — Change : 0. — Ancient weight : 4 gr. 58.

Value : 1/2 Kedet. — Unit : 9 gr. 16.

31375. Material : Basalt. — Form : K-N. — Diameter 0 m. 034 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 45 gr. 75. — Change : 0. — Ancient weight : 45 gr. 75.

Value : 5 Kedets. — Unit : 9 gr. 15.

31616. Material : Green basalt. — Form : D. — Diameter 0 m. 018 mill., height 0 m. 015 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 9 gr. 15. — Change : 0. — Ancient weight : 9 gr. 15.

Value : 1 Kedet. — Unit : 9 gr. 15.

31403. Material : Basalt. — Form : B. — Diameter 0 m. 02 cent., height 0 m. 018 mill.

Preservation : Perfect. — Present weight : 18 gr. 25. — Change : 0. — Ancient weight : 18 gr. 25.

Value : 2 Kedets. — Unit : 9 gr. 125.

31453. Material : Alabaster. — Form : C (roughly shaped). — Diameter 0 m. 027 mill., height 0 m. 017 mill.

Preservation : Perfect. — Present weight : 18 gr. 25. — Change : 0. — Ancient weight : 18 gr. 25.

Value : 2 Kedets. — Unit : 9 gr. 125.

31355. Material : Basalt. — Form : K-N. — Diameter 0 m. 078 mill., height 0 m. 04 cent.

Preservation : Perfect. — Present weight : 455 gr. 45. — Change : 0. — Ancient weight : 455 gr. 45.

Value : 5 Debens (*i. e.* 50 Kedets). — Unit : 9 gr. 109.

31429. Material : Basalt. — Form : K. — Diameter 0 m. 015 mill., height 0 m. 008 mill.

Preservation : Perfect. — Present weight : 4 gr. 55. — Change : 0. — Ancient weight : 4 gr. 55.

Value : 1/2 Kedet. — Unit : 9 gr. 1.

31421. Material : Basalt. — Form : K, rounded edges. — Diameter 0 m. 093 mill., height 0 m. 055 mill.

Preservation : Perfect, except for slight wearing in center of under surface. — Present weight : 908 gr. 44. — Change : 0 gr. 5. — Ancient weight : 908 gr. 94.

Value : 10 Debens (*i. e.* 100 Kedets). — Unit : 9 gr. 089.

31304. Material : Hæmatite. — Form : X, well polished; edges slightly rounded. — Length 0 m. 057 mill., breadth 0 m. 028 mill., height 0 m. 018 mill. (pl. II).

Preservation : Perfect. — Present weight : 90 gr. 8. — Change : 0. — Ancient weight : 90 gr. 8.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 9 gr. 08.

31443. Material : Hæmatite. — Form : X, edges rounded. — Length 0 m. 053 m., breadth 0 m. 03 cent., height 0 m. 022 mill.

Preservation : Perfect. — Present weight : 90 gr. 8. — Change : 0. — Ancient weight : 90 gr. 8.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 9 gr. 08.

Bibl. : Ink numeral 32778 (?).

31665. Material : Alabaster. — Form : J. — Diameter 0 m. 022 mill., height 0 m. 014 mill.

Preservation : Perfect. — Present weight : 9 gr. 08. — Change : 0. — Ancient weight : 9 gr. 08.

Value : 1 Kedet. — Unit : 9 gr. 08.

Bibl. : *Catalogue Maspero*, n° 4385.

31427. Material: Basalt. — Form: N, roughly shaped. — Diameter 0 m. 017 mill., height 0 m. 007 mill.

Preservation: Perfect. — Present weight: 4 gr. 54. — Change: 0. — Ancient weight: 4 gr. 54.

Value: 1/2 Kedet. — Unit: 9 gr. 08.

31656. Material: Crystalline limestone. — Form: R, edges rounded, surface polished. — Length 0 m. 025 mill., breadth 0 m. 02 cent., height 0 m. 015 mill.

Preservation: Two or three small chips. — Present weight: 18 gr. 6. — Change: 0 gr. 1. — Ancient weight: 18 gr. 7.

Value: 2 Kedets. — Unit: 9 gr. 07.

Bibl.: *Catalogue Maspero*, n° 4376.

31343. Material: Basalt, burnt. — Form: K. — Diameter 0 m. 053 mill., height 0 m. 032 mill.

Preservation: Slight chip on upper surface. — Present weight: 181 gr. 1. — Change: 0 gr. 01. — Ancient weight: 181 gr. 11.

Value: 2 Debens (*i. e.* 20 Kedets). — Unit: 9 gr. 055.

31501. Material: Basalt. — Form: O. — Diameter 0 m. 115 mill., height 0 m. 072 mill.

Preservation: Much broken. — Present weight: 1780 grammes. — Change: 30 grammes. — Ancient weight: 1810 grammes.

Value: 20 Debens (*i. e.* 200 Kedets). — Unit: 9 gr. 05.

Bibl.: Ink numeral 27698.

31368. Material: Grey diorite. — Form: I-G. — Diameter 0 m. 024 mill., height 0 m. 02 cent. (pl. II).

Preservation: Perfect. — Present weight: 18 gr. 1. — Change: 0. — Ancient weight: 18 gr. 1.

Value: 2 Kedets. — Unit: 9 gr. 05.

Bibl.: Ink numeral 17.

31437. Material : Basalt. — Form : N. — Diameter 0 m. 02 cent., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 9 gr. 05. — Change : 0. — Ancient weight : 9 gr. 05.

Value : 1 Kedet. — Unit : 9 gr. 05.

31448. Material : Basalt. — Form : N. — Diameter 0 m. 022 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 9 gr. 05. — Change : 0. — Ancient weight : 9 gr. 05.

Value : 1 Kedet. — Unit : 9 gr. 05.

31314. Material : Basalt. — Form : T, rounded edges. — Diameter 0 m. 017-0 m. 05 cent. square, height 0 m. 026 mill.

Preservation : Very slightly chipped. — Present weight : 180 gr. 6. — Change : 0 gr. 01. — Ancient weight : 180 gr. 61.

Value : 2 Debens (*i. e.* 20 Kedets). — Unit : 9 gr. 03.

31628. Material : Black basalt. — Form : H. roughly shaped. — Diameter 0 m. 011 mill., height 0 m. 009 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 3 gr. 01. — Change : 0. — Ancient weight : 3 gr. 01.

Value : 1/3 of a Kedet. — Unit : 9 gr. 03.

31344. Material : Grey granite. — Form : K, neat workmanship, polished. — Diameter 0 m. 052 mill., height 0 m. 034 mill.

Preservation : Very slightly chipped. — Present weight : 180 gr. 55. — Change : 0 gr. 01. — Ancient weight : 180 gr. 56.

Value : 2 Debens (*i. e.* 20 Kedets). — Unit : 9 gr. 028.

31358. Material : Basalt. — Form : K-L. — Diameter 0 m. 042 mill., height 0 m. 025 mill.

Preservation : Perfect. — Present weight : 90 gr. 05. — Change : 0. — Ancient weight : 90 gr. 05.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 9 gr. 005.

31274. Material : Bronze. — Form : N. — Diameter 0 m. 015 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 9 grammes. — Change : 0. — Ancient weight : 9 grammes.

Value : 1 Kedet. — Unit : 9 grammes.

Bibl. : *Catalogue Maspero*, n° 4395.

31477. Material : Basalt. — Form : N. — Diameter 0 m. 012 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 1 gr. 5. — Change : 0. — Ancient weight : 1 gr. 5.

Value : 1/6 of a Kedet. — Unit : 9 grammes.

31603. Material : Grey basalt. — Form : Rectangular, rounded edges and corners: neat workmanship. — Length 0 m. 043 mill., breadth 0 m. 031 mill., height 0 m. 025 mill. (pl. III).

Preservation : Perfect. — Present weight : 89 gr. 92. — Change : 0. — Ancient weight : 89 gr. 92.

Inscription : IIIII « 5 ».

Value : 5 double-Kedets. — Unit : 17 gr. 984 (8.992×2).

31302. Material : Green serpentine (?). — Form : X, edges sharp. — Length 0 m. 062 mill., breadth 0 m. 046 mill., height 0 m. 027 mill.

Preservation : Perfect. — Present weight : 89 gr. 9. — Change : 0. — Ancient weight : 89 gr. 9.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 99.

31623. Material : Bronze. — Form : N. — Diameter 0 m. 012 mill., height 0 m. 005 mill.

Provenance : Naukratis, 1886.

Preservation : Slight corrosion. — Present weight : 3 grammes. — Change : 0 gr. 01 (gain). — Ancient weight : 2 gr. 99.

Value : 1/3 of a Kedet. — Unit : 8 gr. 97.

31326. Material : Basalt. — Form : E. — Diameter 0 m. 038 mill., height 0 m. 017 mill.

Preservation : Perfect. — Present weight : 89 gr. 65. — Change : 0. — Ancient weight : 89 gr. 65.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 965.

31459. Material : Basalt. — Form : K, roughly shaped. — Diameter 0 m. 017 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 4 gr. 48. — Change : 0. — Ancient weight : 4 gr. 48.

Value : 1/2 Kedet. — Unit : 8 gr. 96.

31294. Material : Grey basalt. — Form : I. — Greatest diameter 0 m. 014 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 2 gr. 98. — Change : 0. — Ancient weight : 2 gr. 98.

Value : 1/3 of a Kedet. — Unit : 8 gr. 94.

Bibl. : *Catalogue Maspero*, n° 4505.

31400. Material : Basalt. — Form : B. — Diameter 0 m. 021 mill., height 0 m. 017 mill.

Preservation : Perfect. — Present weight : 17 gr. 85. — Change : 0. — Ancient weight : 17 gr. 85.

Value : 2 Kedets. — Unit : 8 gr. 925.

31662. Material : Bronze. — Form : H, roughly shaped. — Diameter 0 m. 014 m., height 0 m. 012 mill. (pl. III).

Preservation : Slightly corroded and cleaned. — Present weight : 17 gr. 85. — Change : 0. — Ancient weight : 17 gr. 85.

Value : 2 Kedets. — Unit : 8 gr. 92.

Bibl. : *Catalogue Maspero*, n° 4372.

31636. Material : Basalt. — Form : C. There appear to have been some signs or marks on upper surface but these are erased. — Diameter 0 m. 065 mill., height 0 m. 047 mill.

Provenance : Naukratis, 1886.

Preservation : Slightly worn. — Present weight : 444 gr. 67. — Change : 1 gramme. — Ancient weight : 445 gr. 67.

Value : 5 Debens (50 Kedets). — Unit : 89 gr. 134 (8.913×10).

31500. Material : Basalt. — Form : J, roughly shaped. — Diameter 0 m. 115 mill., height 0 m. 09 cent.

Preservation : Perfect. — Present weight : 1780 grammes. — Change : 0. — Ancient weight : 1780 grammes.

Value : 20 Debens (*i. e.* 200 Kedets). — Unit : 8 gr. 9.

Bibl. : Ink numeral 27897 (?).

31357. Material : Black basalt. — Form : N-P, roughly shaped; polished. — Diameter 0 m. 085 mill., height 0 m. 035 mill.

Provenance : Benha.

Preservation : Two large fractures on under surface, and several small chips on upper edges. — Present weight : 526 gr. 8. — Change : 7 grammes. — Ancient weight : 533 gr. 8.

Value : 6 Debens (*i. e.* 60 Kedets) or 1 Mina (*i. e.* 50 staters). — Unit : 8 gr. 896 (stater : 10.676).

Bibl. : *Catalogue Maspero*, n° 4356.

31456. Material : Basalt. — Form : C. — Diameter 0 m. 016 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 4 gr. 43. — Change : 0. — Ancient weight : 4 gr. 43.

Value : 1/2 Kedet. — Unit : 8 gr. 86.

31350. Material : Basalt. — Form : N. — Diameter 0 m. 043 mill., height 0 m. 023 mill.

Preservation : Worn and chipped. — Present weight : 87 gr. 89. — Change : 0 gr. 5. — Ancient weight : 88 gr. 39.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 839.

31449. Material : Basalt. — Form : N. — Diameter 0 m. 024 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 17 gr. 61. — Change : 0. — Ancient weight : 17 gr. 61.

Value : 2 Kedets. — Unit : 8 gr. 805.

31381. Material : Alabaster. — Form : K, roughly shaped. — Diameter 0 m. 032 mill., height 0 m. 021 mill.

Preservation : Perfect. — Present weight : 44 grammes. — Change : 0. — Ancient weight : 44 grammes.

Value : 5 Kedets. — Unit : 8 gr. 8.

31440. Material : Basalt. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 8 gr. 8. — Change : 0. — Ancient weight : 8 gr. 8.

Value : 1 Kedet. — Unit : 8 gr. 8.

31334. Material : Black basalt. — Form : A, polished. — Diameter 0 m. 045 mill., height 0 m. 039 mill.

Preservation : Perfect. — Present weight : 175 gr. 8. — Change : 0. — Ancient weight : 175 gr. 8.

Value : 2 Debens (*i. e.* 20 Kedets). — Unit : 8 gr. 79.

31657. Material : Serpentine. — Form : N. — Diameter 0 m. 027 mill., height 0 m. 016 mill.

Preservation : One small chip; otherwise perfect. — Present weight : 17 gr. 55. — Change : 0 gr. 01. — Ancient weight : 17 gr. 56.

Value : 2 Kedets. — Unit : 8 gr. 78.

Bibl. : *Catalogue Maspero*, n° 4377 (where the material is given as bronze).

31661. Material : Black basalt. — Form : I. — Diameter 0 m. 025 mill., height 0 m. 019 mill.

Preservation : Perfect. — Present weight : 17 gr. 57. — Change : 0. — Ancient weight : 17 gr. 57.

Value : 2 Kedets. — Unit : 8 gr. 78.

Bibl. : *Catalogue Maspero*, n° 4373.

31281. Material : Alabaster. — Form : U, neatly cut. — Length 0 m. 024 mill., breadth 0 m. 02 cent., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 17 gr. 57. — Change : 0. — Ancient weight : 17 gr. 57.

Value : 2 Kedets. — Unit : 8 gr. 78.

31639. Material : Basalt. — Form : H, roughly shaped. — Diameter, circa 0 m. 045 mill., height 0 m. 035 mill.

Provenance : Naukratis, 1885.

Preservation : Slightly worn. — Present weight : 175 gr. 4. — Change : 0 gr. 01. — Ancient weight : 175 gr. 41.

Value : 2 Debens (*i. e.* 20 Kedets). — Unit : 8.77×10.

31668. Material : Crystalline limestone, burnt. — Form : D. — Diameter at base 0 m. 016 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 8 gr. 76. — Change : 0. — Ancient weight : 8 gr. 76.

Value : 1 Kedet. — Unit : 8 gr. 76.

Bibl. : *Catalogue Maspero*, n° 4388.

31384. Material : Hæmatite. — Form : E, a small hole, 0 m. 002 mill. in diameter, is drilled into the center of the under surface, about 0 m. 003 mill. deep. — Diameter 0 m. 029 mill., height 0 m. 016 mill. (pl. III).

Preservation : Slight fractures on upper surface. — Present weight : 43 gr. 65. — Change : 0 gr. 02. — Ancient weight : 43 gr. 67.

Value : 5 Kedets. — Unit : 8 gr. 734.

Bibl. : Ink numeral 27705.

31404. Material : Basalt. — Form : D-G. — Diameter 0 m. 02 cent., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 17 gr. 5. — Change : 0. — Ancient weight : 17 gr. 5.

Value : 2 Kedets. — Unit : 8 gr. 70.

31333. Material : Granite. — Form : K. polished edges sharp. — Diameter 0 m. 045 mill., height 0 m. 026 mill.

Preservation : Four small chips. — Present weight : 104 gr. 5. — Change : 0 gr. 02. — Ancient weight : 104 gr. 52.

Value : 12 Kedets (or 20 sigli). — Unit : 8 gr. 71 (siglus : 5 gr. 226).

31667. Material : Limestone. — Form : I, ill-shaped : probably a pebble trimmed down. — Diameter 0 m. 019 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 8 gr. 7. — Change : 0. — Ancient weight : 8 gr. 7.

Value : 1 Kedet. — Unit : 8 gr. 7.

Bibl. : *Catalogue Maspero*, n° 4387.

31613. Material : Black granite. — Form : K. On the upper surface a beetle ( ) is carved, and by its side the numeral is inscribed. — Diameter at the top 0 m. 155 mill., at bottom 0 m. 135 mill., height 0 m. 115 mill. (pl. IV).

Preservation : Somewhat worn. On one side of upper surface it has been chipped and anciently rubbed down. Several small chips. —

Present weight : 5 gr. 180. — Change : Loss from chips 6 grammes. From rubbed surface 30 grammes. — Ancient weight : Originally 5216 grammes; after rubbing down 5180 grammes.

Inscription : « 60 ».

Value : 60 Debens (*i. e.* 600 Kedets). — Unit : Originally 8 gr. 693.

Bibl. : Printed numeral 454.

31349. Material : Basalt, burnt. — Form : B. — Diameter 0 m. 036 mill., height 0 m. 027 mill.

Preservation : Perfect. — Present weight : 86 gr. 9. — Change : 0. — Ancient weight : 86 gr. 9.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 69.

31647. Material : Serpentine. — Form : K. — Diameter 0 m. 17 cent., height 0 m. 011 mill.

Provenance : Naukratis. 1886.

Preservation : Perfect. — Present weight : 4 gr. 34. — Change : 0. — Ancient weight : 4 gr. 34.

Value : 1/2 Kedet. — Unit : 8 gr. 68.

31271. Material : Alabaster. — Form : N. — Diameter 0 m. 022 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 8 gr. 66. — Change : 0. — Ancient weight : 8 gr. 66.

Value : 1 Kedet. — Unit : 8 gr. 66.

Bibl. : *Catalogue Maspero*, n° 4392.

31299. Material : Basalt. — Form : N. — Diameter 0 m. 011 mill., height 0 m. 006 mill.

Preservation : Perfect. — Present weight : 1 gr. 44. — Change : 0. — Ancient weight : 1 gr. 44.

Value : 1/6 of a Kedet. — Unit : 8 gr. 64.

Note : With a different multiple the weight might belong to another standard. One third (and hence one sixth) is, however, a common multiple in the Kedet system).

Bibl. : *Catalogue Maspero*, n° 4510 (where the material is given as bronze).

31626. Material : Alabaster. — Form : D, roughly shaped. — Diameter 0 m. 015 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 8 gr. 62. — Change : 0. — Ancient weight : 8 gr. 62.

Value : 1 Kedet. — Unit : 8 gr. 62.

31352. Material : Basalt. — Form : N, well formed; polished. — Diameter 0 m. 038 mill., height 0 m. 02 cent.

Preservation : Perfect. — Present weight : 51 gr. 7. — Change : 0. — Ancient weight : 51 gr. 7.

Value : 6 Kedets. — Unit : 8 gr. 616.

Note : There is some resin adhering to this weight, which seems to indicate that it was buried with a mummy.

31278. Material : Basalt. — Form : I, well formed. — Diameter 0 m. 035 mill., height 0 m. 023 mill.

Preservation : Perfect. — Present weight : 43 gr. 06. — Change : 0. — Ancient weight : 43 gr. 06.

Value : 5 Kedets. — Unit : 8 gr. 612.

31388. Material : Basalt. — Form : N. — Diameter 0 m. 041 mill., height 0 m. 025 mill.

Preservation : Perfect. — Present weight : 86 gr. 05. — Change : 0. — Ancient weight : 86 gr. 05.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 605.

31502. Material : Basalt. — Form : O. — Diameter 0 m. 11 cent., height 0 m. 065 mill.

Provenance : Benha.

Preservation : Slightly worn and chipped. — Present weight : 1710 gr. — Change : 10 grammes. — Ancient weight : 1720 grammes.

Value : 20 Debens (*i. e.* 200 Kedets). — Unit : 8 gr. 6.

Bibl. : *Catalogue Maspero*, n° 4353.

31608. Material : Black basalt. — Form : N. — Diameter 0 m. 02 cent., height 0 m. 011 mill.

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 8 gr. 6. — Change : 0. — Ancient weight : 8 gr. 6.

Value : 1 Kedet. — Unit : 8 gr. 6.

Bibl. : Petrie, *Naukratis*, n° 314 (?).

31393. Material : Basalt. — Form : N, roughly formed. — Diameter 0 m. 047 m., height 0 m. 027 mill.

Provenance : Luxor.

Preservation : Several chips. — Present weight : 171 gr. 1. — Change : 0 gr. 7. — Ancient weight : 171 gr. 8.

Value : 2 Debens (*i. e.* 20 Kedets). — Unit : 8 gr. 59.

Bibl. : *Catalogue Maspero*, n° 4357.

31297. Material : Basalt. — Form : K. — Diameter 0 m. 01 cent., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 1 gr. 43. — Change : 0. — Ancient weight : 1 gr. 43.

Value : 1/6 of a Kedet. — Unit : 8 gr. 58.

Bibl. : *Catalogue Maspero*, n° 4508.

31438. Material : Basalt. — Form : P-Z. — Diameter 0 m. 02 cent., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 8 gr. 58. — Change : 0. — Ancient weight : 8 gr. 58.

Value : 1 Kedet. — Unit : 8 gr. 58.

31469. Material : Basalt. — Form : P. — Diameter 0 m. 016 mill., height 0 m. 005 mill.

Preservation : Perfect. — Present weight : 2 gr. 86. — Change : 0. — Ancient weight : 2 gr. 86.

Value : 1/3 of a Kedet. — Unit : 8 gr. 58.

31346. Material : Basalt. — Form : B. roughly shaped. — Diameter 0 m. 036 m., height 0 m. 027 mill.

Preservation : Perfect. — Present weight : 85 gr. 7. — Change : 0. — Ancient weight : 85 gr. 7.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 57.

31480. Material : Bronze. — Form : I. — Diameter 0 m. 022 mill., height 0 m. 018 mill.

Preservation : Corroded. — Present weight : 43 gr. 25. — Change : 0 gr. 5 (gain). — Ancient weight : 42 gr. 75.

Value : 5 Kedets. — Unit : 8 gr. 55.

31406. Material : Basalt. — Form : K. — Diameter 0 m. 022 mill., height 0 m. 015 mill.

Preservation : Perfect. — Present weight : 17 gr. 1. — Change : 0. — Ancient weight : 17 gr. 1.

Value : 2 Kedets. — Unit : 8 gr. 55.

31496. Material : Pink granite. — Length top of head to nose 0 m. 155 mill., height neck to top of head 0 m. 13 cent., breadth ear to ear 0 m. 15 cent. — Cow's head, well modelled. On either side of the head, where the horns would be expected, there is a hollow 0 m. 02 cent. in diameter and the same in depth. In these there may have been inserted a clip-ring by which to hold the weight. The under surface seems to have been anciently broken and there is a newer chip under the throat. — Present weight : 4170 grammes. — Change : 100 grammes (probably more). — Ancient weight : 4270 grammes (pl. VII).

Value : 500 Debens (*i. e.* 5000 Kedets). — Unit : 8 gr. 54.

31315. Material : Bronze. — Form : I. with handle on upper surface. — Diameter 0 m. 03 cent., height 0 m. 035 mill. (with handle).

Preservation : Perfect. — Present weight : 85 gr. 39. — Change : 0. — Ancient weight : 85 gr. 39.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 539.

31451. Material : Alabaster. — Form : O. — Diameter 0 m. 026 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 17 gr. 05. — Change : 0. — Ancient weight : 17 gr. 05.

Value : 2 Kedets. — Unit : 8 gr. 525.

31283. Material : Brown limestone. — Form : Y. — Length 0 m. 034 mill., breadth 0 m. 019 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 16 gr. 93. — Change : 0. — Ancient weight : 16 gr. 93.

Value : 2 Kedets. — Unit : 8 gr. 46.

31606. Material : Alabaster. — Form : K, roughly formed. — Diameter 0 m. 011 mill., height 0 m. 007 mill.

Provenance : Defenneh, 1884.

Preservation : Slight decay. — Present weight : 1 gr. 4. — Change : 0 gr. 01. — Ancient weight : 1 gr. 41.

Value : 1/6 of a Kedet. — Unit : 8 gr. 46.

31481. Material : Bronze. — Form : I. — Diameter 0 m. 021 mill., height 0 m. 018 mill.

Preservation : Slightly corroded. — Present weight : 42 gr. 08. — Change : 0 gr. 01 (gain) — Ancient weight : 42 gr. 07.

Value : 5 Kedets. — Unit : 8 gr. 414.

31644. Material : Bronze. — Form : Rectangular : upper surface smaller than lower. Edges and corners rounded. Base length 0 m. 056 mill., breadth 0 m. 035 mill., top length 0 m. 048 mill., breadth 0 m. 032 mill., height 0 m. 026 mill. (pl. II).

Provenance : Naukratis, 1886.

Preservation : Perfect, except for slight corrosion on upper surface with decay; cleaned. — Present weight : 419 gr. 45. — Change : 1 gramme. — Ancient weight : 420 gr. 45.

Value : 50 Kedets (*i. e.* 5 Debens). — Unit : 8 gr. 4.

31476. Material : Green basalt. — Form : N. — Diameter 0 m. 013 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 1 gr. 4. — Change : 0. — Ancient weight : 1 gr. 4.

Value : 1/6 of a Kedet. — Unit : 8 gr. 4.

31605. Material : Alabaster. — Form : G. — Diameter 0 m. 031 mill., height 0 m. 023 mill.

Provenance : Naukratis, 1885.

Preservation : Very slightly worn. — Present weight : 41 gr. 95. — Change : 0 gr. 01. — Ancient weight : 41 gr. 96.

Value : 5 Kedets. — Unit : 8 gr. 392.

Bibl. : Petrie, *Naukratis*, n° 344.

31391. Material : Bronze. — Form : N. — Diameter 0 m. 035 mill., height 0 m. 014 mill.

Preservation : Much corroded. — Present weight : 85 gr. 9. — Change : 9 grammes (gain). — Ancient weight : 83 gr. 9.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 39.

31617. Material : Black basalt. — Form : K. — Diameter 0 m. 018 mill., height 0 m. 012 mill.

Provenance : Naukratis, 1885.

Preservation : Perfect. — Present weight : 8 gr. 35. — Change : 0. — Ancient weight : 8 gr. 35.

Value : 1 Kedet. — Unit : 8 gr. 35.

Bibl. : Petrie, *Naukratis*, n° 347.

31386. Material : Basalt. — Form : L-O. — Diameter 0 m. 038 mill., height 0 m. 026 mill.

Preservation : Perfect. — Present weight : 83 gr. 45. — Change : 0. — Ancient weight : 83 gr. 45.

Value : 1 Deben (*i. e.* 10 Kedets). — Unit : 8 gr. 345.

31424. Material : Blue glass. — Form : C. — Diameter 0 m. 016 mill., height 0 m. 010 mill.

Preservation : Perfect. — Present weight : 4 gr. 17. — Change : 0. — Ancient weight : 4 gr. 17.

Value : 1/2 Kedet. — Unit : 8 gr. 34.

31467. Material : Basalt. — Form : N-P. — Diameter 0 m. 014 mill., height 0 m. 007 mill.

Preservation : Perfect. — Present weight : 2 gr. 78. — Change : 0. — Ancient weight : 2 gr. 78.

Value : 1/3 of a Kedet. — Unit : 8 gr. 34.

31327. Material : Black basalt. — Form : S, well formed. — Diameter 0 m. 013 mill. square.

Preservation : Perfect. — Present weight : 41 gr. 65. — Change : 0. — Ancient weight : 41 gr. 65.

Value : 5 Kedets. — Unit : 8 gr. 33.

31479. Material : Bronze. — Form : K. — Diameter 0 m. 024 mill., height 0 m. 015 mill.

Preservation : Corroded. — Present weight : 42 gr. 58. — Change : 1 gramme (gain). — Ancient weight : 41 gr. 58.

Value : 5 Kedets. — Unit : 8 gr. 316.

31620. Material : Bronze. — Form : I. — Diameter 0 m. 023 mill., height 0 m. 023 mill.

Provenance : Naukratis, 1886.

Preservation : Corroded. — Present weight : 42 grammes. — Change : 0 gr. 5 (gain). — Ancient weight : 41 gr. 5.

Value : 5 Kedets. — Unit : 8 gr. 3.

31445. Material : Porphyry (?). — Form : N. — Diameter 0 m. 029 mill., height 0 m. 01 cent.

Preservation : Perfect. — Present weight : 8 gr. 3. — Change : 0. — Ancient weight : 8 gr. 3.

Value : 1 Kedet. — Unit : 8 gr. 3.

31460. Material : Alabaster. — Form : K-O. — Diameter 0 m. 015 mill., height 0 m. 008 mill.

Preservation : Perfect. — Present weight : 4 gr. 15. — Change : 0. — Ancient weight : 4 gr. 15.

Value : 1/2 Kedet. — Unit : 8 gr. 3.

31441. Material : Basalt. — Form : O-N. — Diameter 0 m. 018 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 8 gr. 27. — Change : 0. — Ancient weight : 8 gr. 27.

Value : 1 Kedet. — Unit : 8 gr. 27.

31292. Material : Bronze. — Form : N. — Diameter 0 m. 01 cent., height 0 m. 003 mill.

Preservation : Perfect. — Present weight : 2 gr. 75. — Change : 0. — Ancient weight : 2 gr. 75.

Value : 1/3 of a Kedet. — Unit : 8 gr. 25.

Bibl. : *Catalogue Maspero*, n° 4503.

31648. Material : Alabaster. — Form : K. — Diameter 0 m. 014 mill., height 0 m. 008 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 2 gr. 75. — Change : 0. — Ancient weight : 2 gr. 75.

Value : 1/3 of a Kedet. — Unit : 8 gr. 25.

31397. Material : Basalt. — Form : B-I. — Diameter 0 m. 06 cent., height 0 m. 048 mill.

Preservation : Worn and slightly chipped. — Present weight : 1/10 gr. 85. — Change : 1 gramme. — Ancient weight : 1/11 gr. 85.

Value : 5 Debens (*i. e.* 50 Kedets) or 1/10 staters (*i. e.* 80 drachmæ). — Unit : 8 gr. 237 or 5 gr. 148.

31329. Material : Basalt. — Form : T, roughly shaped. — Length 0 m. 028 m., breadth 0 m. 026 mill., height 0 m. 017 mill.

Preservation : Slightly chipped. — Present weight : 1/11 gr. 05. — Change : 0 gr. 05. — Ancient weight : 1/11 gr. 1.

Value : 5 Kedets. — Unit : 8 gr. 22.

31482. Material : Bronze. — Form : L, with protruding cap. — Diameter 0 m. 025 mill., height 0 m. 017 mill. (pl. II).

Preservation : Corroded. — Present weight : 1/12 gr. 6. — Change : 1 gr. 5 (gain). — Ancient weight : 1/11 gr. 1.

Value : 5 Kedets. — Unit : 8 gr. 22.

31458. Material : Basalt. — Form : O. — Diameter 0 m. 014 mill., height 0 m. 009 mill.

Preservation : Perfect. — Present weight : 1/1 gr. 1. — Change : 0. — Ancient weight : 1/1 gr. 1.

Value : 1/2 Kedet. — Unit : 8 gr. 2.

31625. Material : Limestone. — Form : C-D. — Diameter 0 m. 034 mill., height 0 m. 023 mill.

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 1/11 grammes. — Change : 0. — Ancient weight : 1/11 grammes.

Value : 5 Kedets. — Unit : 8 gr. 2.

31419. Material : Basalt. — Form : D. — Diameter 0 m. 016 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 8 gr. 17. — Change : 0. — Ancient weight : 8 gr. 17.

Value : 1 Kedet. — Unit : 8 gr. 17.

31454. Material : Serpentine. — Form : N. — Diameter 0 m. 025 mill., height 0 m. 014 mill.

Preservation : Perfect: but broken into two pieces without loss of weight. — Present weight : 16 gr. 33. — Change : 0. — Ancient weight : 16 gr. 33.

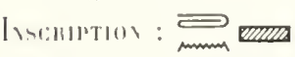
Value : 2 Kedets. — Unit : 8 gr. 165.

31651. Material : Grey granite. — Back of neck to nose 0 m. 30 cent., ear to ear 0 m. 22 cent., height 0 m. 24 cent. (pl. III).

Provenance : Sakkàra.

Form : Head of a cow. The features are not sharply worked and the whole presents a rounded appearance. The position of the eyes is only indicated by a slight depression. Upon the forehead is the inscription, incised.

Preservation : Several big fractures. The under side of the head has been broken off in flakes, and a large crack is visible. — Present weight : 20 gr. 085. — Change : Large breakage 1000 grammes (probably more) others 200 grammes. Total 1200 grammes. — Ancient weight : 24 gr. 285.

Inscription :  and cartouches of Sety Ier.

Value : 300 Debens (*i. e.* 3000 Kedets). — Unit : 8 gr. 095.

Bibl. : Printed label 447.

31439. Material : Alabaster. — Form : K-N. — Diameter 0 m. 02 cent., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 8 gr. 09. — Change : 0. — Ancient weight : 8 gr. 09.

Value : 1 Kedet. — Unit : 8 gr. 09.

F 73420

31499. Material : Limestone. — Form : K. — Diameter 0 m. 095 mill., height 0 m. 06 cent.

Preservation : Slightly chipped. — Present weight : 800 grammes. — Change : 6 grammes. — Ancient weight : 806 grammes.

Value : 10 Debens (*i. e.* 100 Kedets). — Unit : 8 gr. 06.

31298. Material : Steatite. — Form : H, rough work. — Diameter 0 m. 01 cent., height 0 m. 006 mill.

Preservation : Minute chip. — Present weight : 1 gr. 32. — Change : 0. — Ancient weight : 1 gr. 32.

Value : 1/6 (?) of a Kedet. — Unit : 7 gr. 92.

Bibl. : *Catalogue Maspero*, n° 4509 (where the material is given as bronze).

IV. THE ALEXANDRIAN STATER STANDARD.

31409. Material : Basalt. — Form : K. — Diameter 0 m. 021 mill., height 0 m. 013 mill.

Preservation : Perfect. — Present weight : 10 gr. 96. — Change : 0. — Ancient weight : 10 gr. 96.

Value : 1 Stater. — Unit : 10 gr. 96.

31390. Material : Black marble. — Form : Q. polished. — Square 0 m. 042-0 m. 045 mill.

Preservation : Very slight fissures. — Present weight : 218 gr. 2. — Change : 0 gr. 01. — Ancient weight : 218 gr. 21.

Value : 20 Staters (*i. e.* 40 drachmæ). — Unit : 10 gr. 910.

31602. Material : Black steatite. — Form : Rectangular flat, smooth polished. Hieroglyphs, incised. — Length 0 m. 02 cent., breadth 0 m. 13 cent., height 0 m. 006 mill. (pl. III).

Preservation : Perfect. — Present weight : 5 gr. 36. — Change : 0. — Ancient weight : 5 gr. 36.

Inscription : « one fourth ».

Value : One Alex. drachma of 5 gr. 36 and thus 1/4 of a 2 stater unit of 10 gr. 72 × 2 = 21 gr. 44. — Unit : 21 gr. 44 (10 gr. 72).

31369. Material : Black basalt. — Form : A. — Diameter 0 m. 022 mill., height 0 m. 019 mill.

Preservation : Perfect. — Present weight : 21 gr. 43. — Change : 0. — Ancient weight : 21 gr. 43.

Value : 2 Staters (*i. e.* 4 drachmæ). — Unit : 10 gr. 715.

31398. Material : Grey granite. — Form : N, rough. Inscription cut in middle of upper surface. — Diameter 0 m. 08 cent., height 0 m. 042 mill.

Provenance : Memphis.

Preservation : Perfect (?). — Present weight : 534 gr. 55. — Change : 0. — Ancient weight : 534 gr. 55.

Inscription : A «one».

Value : 1 Mina (*i. e.* 100 drachmæ). — Unit : 10 gr. 690 (5 gr. 345 × 2).

Bibl. : *Catalogue Maspero*, n° 4355.

31653. Material : Limestone. — Form : Y. — Length 0 m. 055 mill., breadth 0 m. 04 cent., height 0 m. 033 mill. (pl. II).

Preservation : A few small fractures. — Present weight : 106 gr. 1. — Change : 0 gr. 1. — Ancient weight : 106 gr. 2.

Inscription : +.

Value : 10 Staters. — Unit : 10 gr. 629.

31414. Material : Basalt. — Form : N. — Diameter 0 m. 018 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 5 gr. 3. — Change : 0. — Ancient weight : 5 gr. 3.

Value : 1/2 Stater (1 drachma). — Unit : 10 gr. 6.

31420. Material : Basalt. — Form : G. — Diameter 0 m. 016 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 5 gr. 28. — Change : 0. — Ancient weight : 5 gr. 28.

Value : 1/2 Stater (*i. e.* 1 drachma). — Unit : 10 gr. 56.

31632. Material : Basalt. — Form : Y. — Length 0 m. 028 mill., height 0 m. 021 mill. (pl. II).

Provenance : Naukratis, 1886.

Preservation : Perfect. — Present weight : 20 gr. 78. — Change : 0. — Ancient weight : 20 gr. 78.

Value : 2 Staters. — Unit : 10 gr. 39.

31455. Material : Pottery. — Form : P-Z. — Diameter 0 m. 027 mill., height 0 m. 004 mill. (pl. II).

Preservation : Perfect. — Present weight : 5 gr. 19. — Change : 0. — Ancient weight : 5 gr. 19.

Value : 1/2 Stater (*i. e.* 1 draehma). — Unit : 10 gr. 38.

31503. Material : Basalt. — Form : K, very neat work. Edges sharp. — Diameter 0 m. 12 cent., height 0 m. 085 mill.

Preservation : Perfect. — Present weight : 2070 grammes. — Change : 0. — Ancient weight : 2070 grammes.

Value : 2 Staters. — Unit : 10 gr. 35.

31670. Material : Bronze. — Form : K. — Greatest diameter 0 m. 016 mill., height 0 m. 01 cent.

Preservation : Corroded. — Present weight : 10 gr. 51. — Change : 0 gr. 2 (gain). — Ancient weight : 10 gr. 31.

Value : 1 Stater. — Unit : 10 gr. 31.

Bibl. : *Catalogue Maspero*, n° 4390.

31361. Material : Basalt. — Form : K. — Diameter 0 m. 026 mill., height 0 m. 016 mill.

Preservation : Perfect. — Present weight : 20 gr. 5. — Change : 0. — Ancient weight : 20 gr. 5.

Value : 2 Staters (*i. e.* 4 drachmæ). — Unit : 10 gr. 25.

31633. Material : Basalt. — Form : K-N. — Diameter 0 m. 034 mill., height 0 m. 021 mill.

Provenance : Naukratis. 1886.

Preservation : Perfect. — Present weight : 51 grammes. — Change : 0. — Ancient weight : 51 grammes.

Value : 5 Staters. — Unit : 10 gr. 2.

31291. Material : Basalt. — Form : I. — Diameter 0 m. 015 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 5 gr. 1. — Change : 0. — Ancient weight : 5 gr. 1.

Value : 1/2 Stater (*i. e.* 1 drachma). — Unit : 10 gr. 2.

Bibl. : *Catalogue Maspero*, n° 4502.

31372. Material : Basalt. — Form : B. — Diameter 0 m. 032 mill., height 0 m. 024 mill.

Preservation : Perfect. — Present weight : 50 gr. 85. — Change : 0. — Ancient weight : 50 gr. 85.

Value : 5 Staters. — Unit : 10 gr. 17.

31640. Material : Basalt. — Form : K-L. — Diameter 0 m. 052 mill., height 0 m. 039 mill.

Provenance : Naukratis. 1885.

Preservation : Slightly chipped. — Present weight : 202 gr. 7. — Change : 0 gr. 5. — Ancient weight : 203 gr. 2.

Value : 20 Staters. — Unit : 10 gr. 16.

Bibl. : Petrie, *Naukratis*, n° 462, pl. XXI, 27.

31431. Material : Basalt. — Form : K. — Diameter 0 m. 017 mill., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 5 gr. 07. — Change : 0. — Ancient weight : 5 gr. 07.

Value : 1/2 Stater (*i. e.* 1 drachma). — Unit : 10 gr. 14.

31430. Material : Basalt. — Form : B-M. — Diameter 0 m. 014 mill., height 0 m. 012 mill.

Preservation : Perfect. — Present weight : 5 gr. 05. — Change : 0. — Ancient weight : 5 gr. 05.

Value : 1/2 Stater (1 drachma). — Unit : 10 gr. 1.

31474. Material : Basalt. — Form : N. — Diameter 0 m. 012 mill., height 0 m. 008 mill.

Preservation : Perfect. — Present weight : 2 gr. 02. — Change : 0. — Ancient weight : 2 gr. 02.

Value : 1/5 of a Stater. — Unit : 10 gr. 1.

31328. Material : Black diorite (?). — Form : R-S. — Rough square 0 m. 034-0 m. 042 mill.

Provenance : Mitrahineh.

Preservation : Perfect. — Present weight : 201 gr. 7. — Change : 0. — Ancient weight : 201 gr. 7.

Value : 20 Staters. — Unit : 10 gr. 085.

31277. Material : Bronze. — Form : K. — Greatest diameter 0 m. 022 mill., height 0 m. 018 mill.

Preservation : Corroded and cleaned. — Present weight : 50 gr. 42. — Change : 0 gr. 01 (gain). — Ancient weight : 50 gr. 41.

Value : 5 Staters. — Unit : 10 gr. 08.

Bibl. : *Catalogue Maspero*, n° 4382.

31310. Material : Hæmatite. — Form : See plate II. — Length 0 m. 03 cent., breadth 0 m. 01 cent., height 0 m. 011 mill.

Preservation : Perfect. — Present weight : 10 gr. 08. — Change : 0. — Ancient weight : 10 gr. 08.

Value : 1 Stater. — Unit : 10 gr. 08.

31629. Material : Hæmatite. — Form : C-D, roughly shaped. — Diameter 0 m. 008-0 m. 01 cent., height 0 m. 007 mill.

Provenance : Defenneh, 1886.

Preservation : Perfect. — Present weight : 1 gr. 68. — Change : 0. — Ancient weight : 1 gr. 68.

Value : 1/6 of a Stater or 1/8 of a Deben. — Unit : 10 gr. 08 or 13 gr. 44.

31303. Material : Hæmatite. — Form : X, edges sharp. — Length 0 m. 054 mill., breadth 0 m. 028 mill., height 0 m. 02 cent.

Preservation : Perfect: minute chip. — Present weight : 100 gr. 7. — Change : 0. — Ancient weight : 100 gr. 7.

Value : 10 Staters. — Unit : 10 gr. 07.

31285. Material : Black steatite. — Form : R, corners slightly rounded. — Length 0 m. 03 cent., breadth 0 m. 028 mill., height 0 m. 019 mill.

Preservation : Perfect. — Present weight : 50 gr. 35. — Change : 0. — Ancient weight : 50 gr. 35.

Value : 5 Staters. — Unit : 10 gr. 07.

Bibl. : *Catalogue Maspero*, n° 4365 (where the material is given as basalt).

31396. Material : Basalt. — Form : P-O, rough. — Diameter 0 m. 065 mill., height 0 m. 03 cent.

Preservation : Worn and slightly chipped. — Present weight : 300 gr. 6. — Change : 1 gramme. — Ancient weight : 301 gr. 6.

Value : 30 Staters. — Unit : 10 gr. 053.

V. THE PERSIAN SIGLUS STANDARD.

31498. Material : Steatite. — Form : Oval, flattened at top and bottom. — Length 0 m. 095 mill., breadth 0 m. 08 cent., height 0 m. 061 mill.

Preservation : Slightly chipped. — Present weight : 1115 grammes. — Change : 6 grammes. — Ancient weight : 1121 grammes.

Value : 2 Minæ (*i. e.* 200 Sigli). — Unit : 1 Siglus = 5 gr. 605.

Bibl. : *Catalogue Maspero*, n° 29187.

VI. THE ARABIC DIRHEM STANDARD.

31280. Material : Bronze. — Form : W. At top and bottom is a circular line. — Diameter 0 m. 018 mill., height 0 m. 014 mill.

Preservation : Corroded and cleaned. — Present weight : 28 gr. 7. — Change : 0 gr. 01. — Ancient weight : 28 gr. 71.

Value : 8 Dirâhim. — Unit : 3 gr. 58.

Bibl. : *Catalogue Maspero*, n° 4514.

31279. Material : Bronze. — Form : W. At top and bottom is a pattern of a circle and dot ⊙. — Diameter 0 m. 015 mill., height 0 m. 011 mill.

Preservation : Corroded. — Present weight : 13 gr. 51. — Change : 0 gr. 02 (gain). — Ancient weight : 13 gr. 49.

Value : 4 Dirâhim. — Unit : 3 gr. 37.

Bibl. : *Catalogue Maspero*, n° 4513.

VII. BALANCES, SCALE-PANS, STEELYARDS, ETC.

31489. Pair of balances consisting of a yard and two bronze pans. The yard is of wood 0 m. 277 mill. in length. It is rounded, and at the middle is 0 m. 009 mill. in diameter. Towards either end it decreases to 0 m. 005 mill., and terminates in a lotus formation, 0 m. 007 mill. in diameter, and introduced by three lines or bands. The yard is pierced from top to bottom at the middle by a hole 0 m. 002 mill. in diameter, in which to insert the pin. About 0 m. 065 mill. from either end a hole is pierced in the upper side, and these continue along the inside of the yard to the ends. Through this the strings were passed which held the pans. The pans are 0 m. 06 cent. in diameter. They are made of thin sheets of bronze, flat, and slightly turned up around the edge. They are each pierced with four holes, 0 m. 001 mill. in diameter, near the edge, through which the strings passed (pl. IX).

Preservation : The yard is perfect. The pans are very slightly corroded.

Bibl. : Printed label n° 455.

31490. Pair of pans. — Material : Bronze. — Diameter 0 m. 055 mill., and 0 m. 059 mill. respectively.

The pans are of thin sheets of bronze, flat, and rising slightly towards the edge. They are each pierced with four holes near the edge, 0 m. 001 mill. in diameter.

Preservation : Very slight corrosion.

31491. Pair of pans. — Material : Bronze. — Diameter 0 m. 065 mill. and 0 m. 063 mill. respectively (pl. VIII).

The pans are of thin sheets of bronze, flat, and sharply rising at the edge. They are each pierced with four holes near the edge, 0 m. 001 mill. in diameter.

Preservation : Slightly chipped, and corroded.

31492. Material : Bronze. — Steelyard. — Length 0 m. 034 mill. — The steelyard consists of a graduated yard, and two hooks attached to it. At the pin-end it commences with a knob, and continues for 0 m. 053 mill. in a rectangular formation, about 0 m. 006 mill. by 0 m. 004 mill. at the sides. At the end of this a hole is pierced for the reception of the pin, 0 m. 003 mill. in diameter. The yard then decreases to a rectangle of about 0 m. 004 mill. at the sides, and so continues to the end, where it is finished with a knob. Along the whole length of this part on three sides there are notches at intervals, showing the graduations of the weight. The first and second sides have numerals. From one end of the yard two hooks hang, being suspended from the yard by rings attached to it. One hook is 0 m. 07 cent. in length, and the other 0 m. 04 cent. (pl. VIII-IX).

Preservation : Slightly corroded.

Date : Roman.

INDEX TO THE NUMBERS.

In the catalogue it has been necessary to classify the weights according to their standards, and the numbers, therefore, have no order. In the following index, the page upon which each number is to be found is given, with the standard to which it belongs.

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ERRATA.

Plate I. *Instead of :* Forms of the Weights with Reference Letter, *read :* . . . with Reference Letters.

Plate II. *Instead of :* 31232 *read :* 31632.
— 31244 — 31644.
— 31253 — 31653.

Plate III. *Instead of :* 31201 *read :* 31601.
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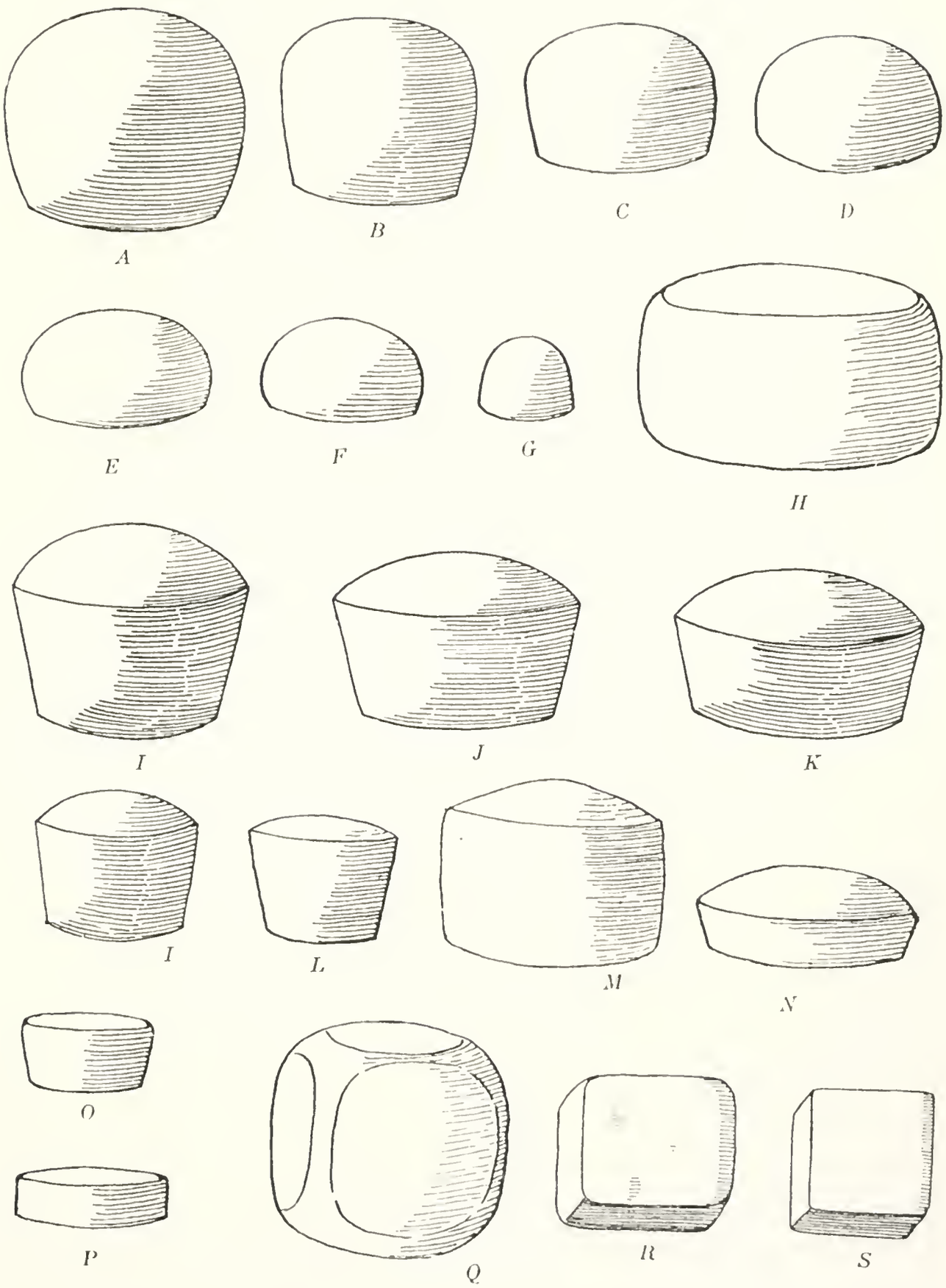
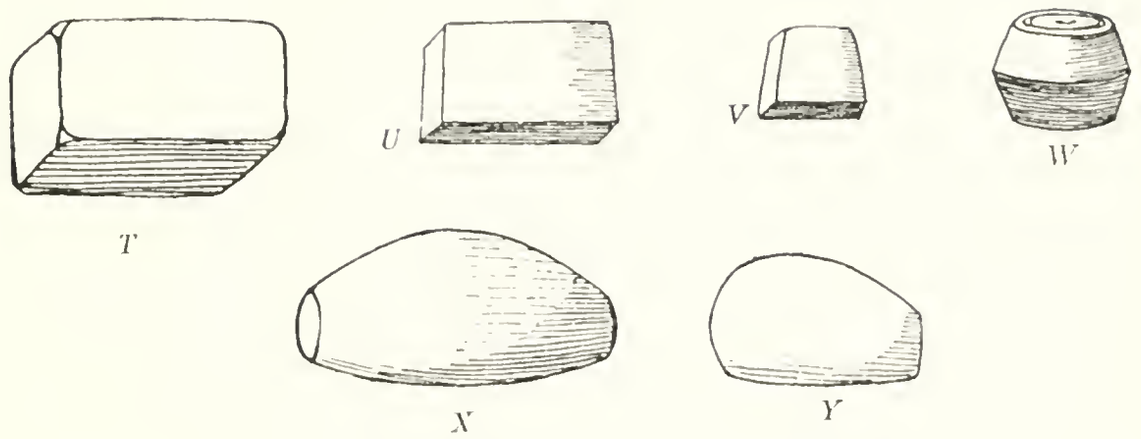
— 31203 — 31603.
— 31204 — 31604.
— 31207 — 31607.
— 31262 — 31662.

1 : 1

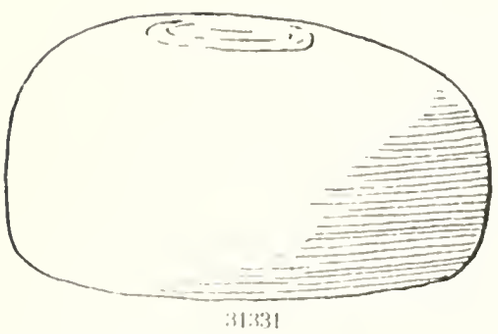


Forms of the Weights with Reference Letters.

1 : 1



Forms of the Weights with Reference Letters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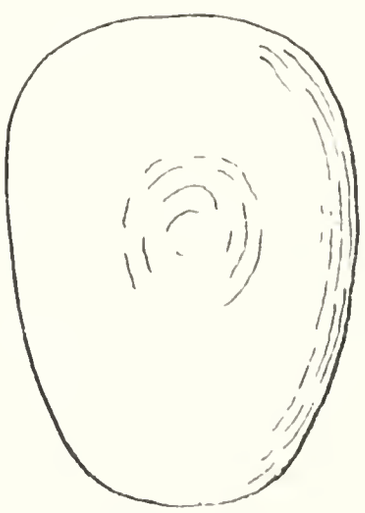
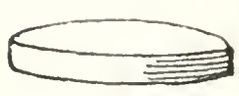

31331 TOP VIEW

31309

31310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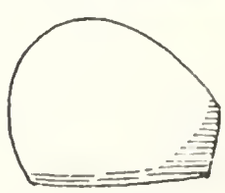
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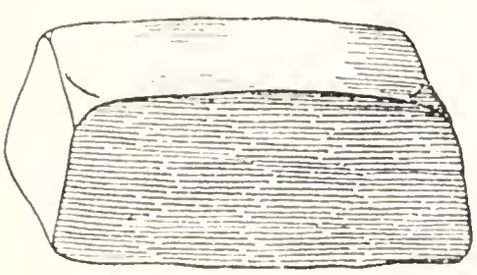
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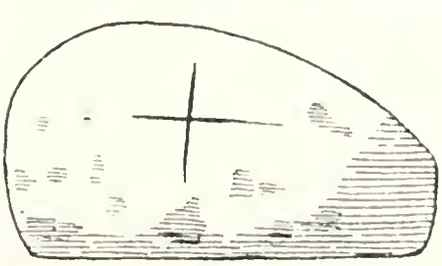
31253

31284

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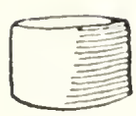
31482

A·E·W

Weights of More Uncommon Form

1 : 1



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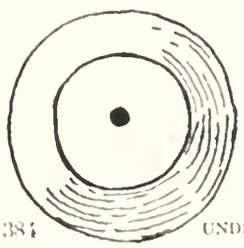
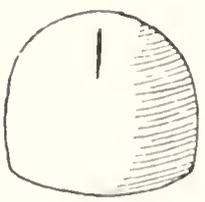


31384 UNDER SIDE

31384

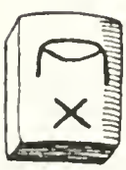


31289

31207

Weights of More Uncommon Form

31398
INSCRIPTION



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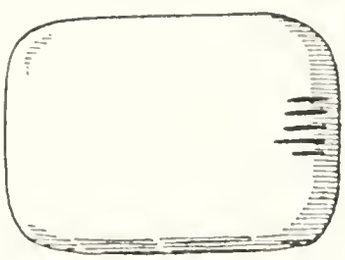

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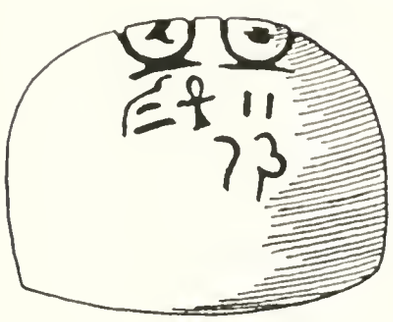

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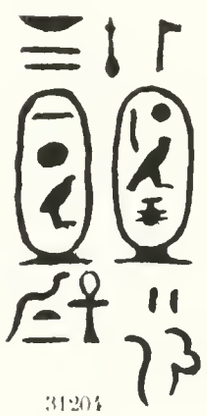

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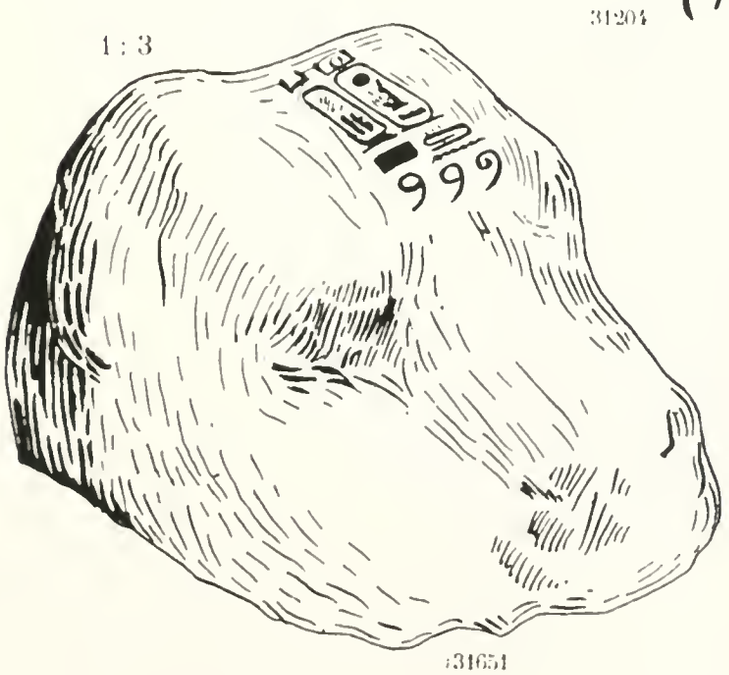

31651

31651.

Inscribed Weights

31.613

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31.652

Phototypie Berthaud, Paris

31.652

Phototypie Berthaud, Paris

31.494

31 496

Phototypie Berthaud, Paris

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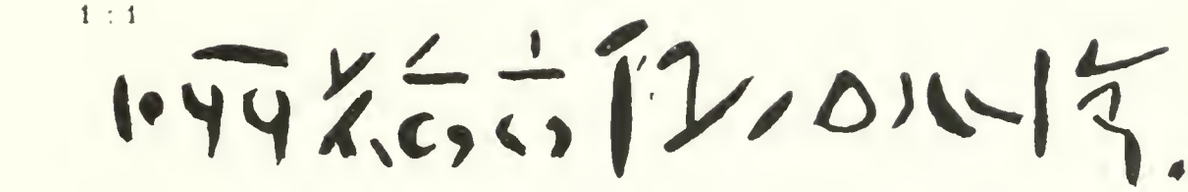

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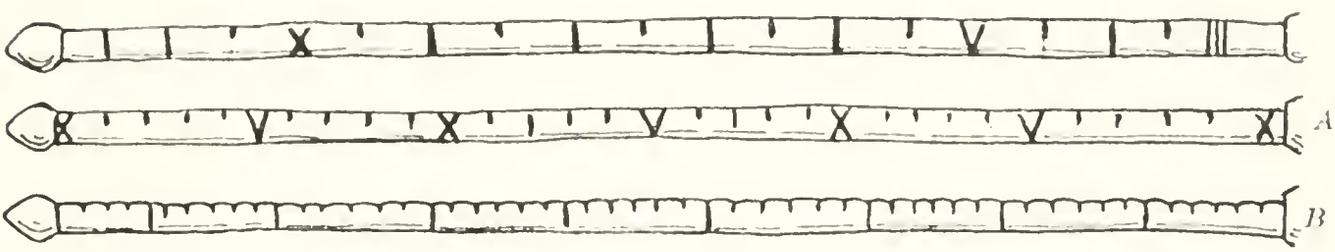

31492

1 : 1

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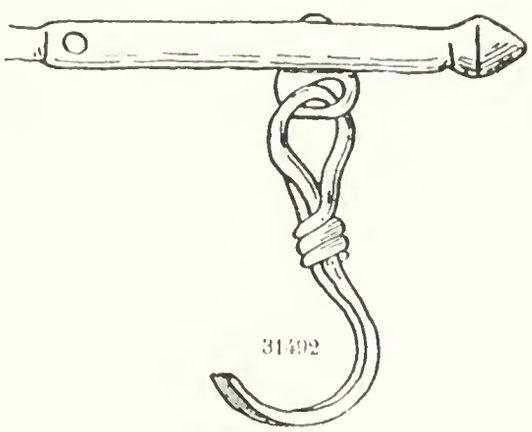

31492

1 : 1

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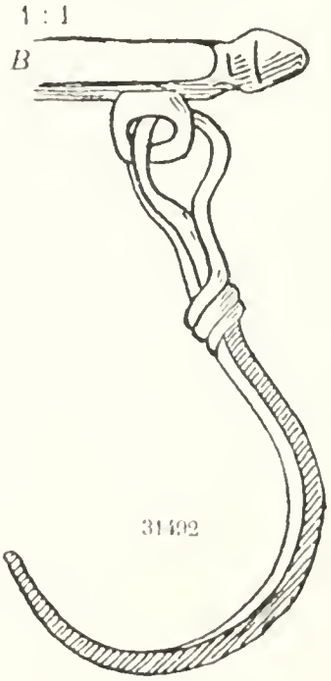
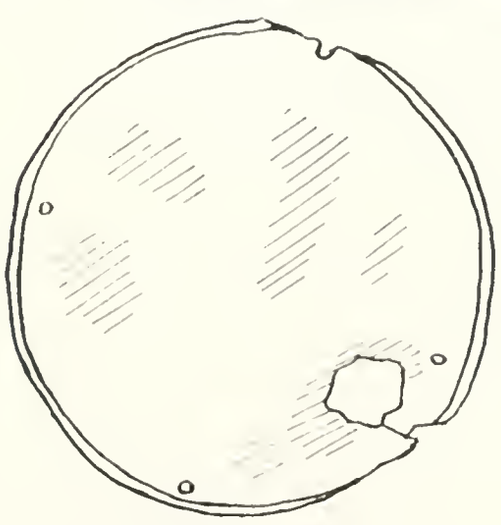
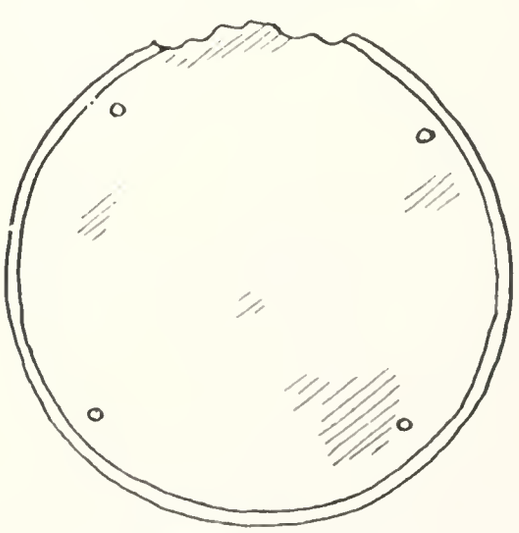


31492

1 : 1 31491 SIDE VIEW



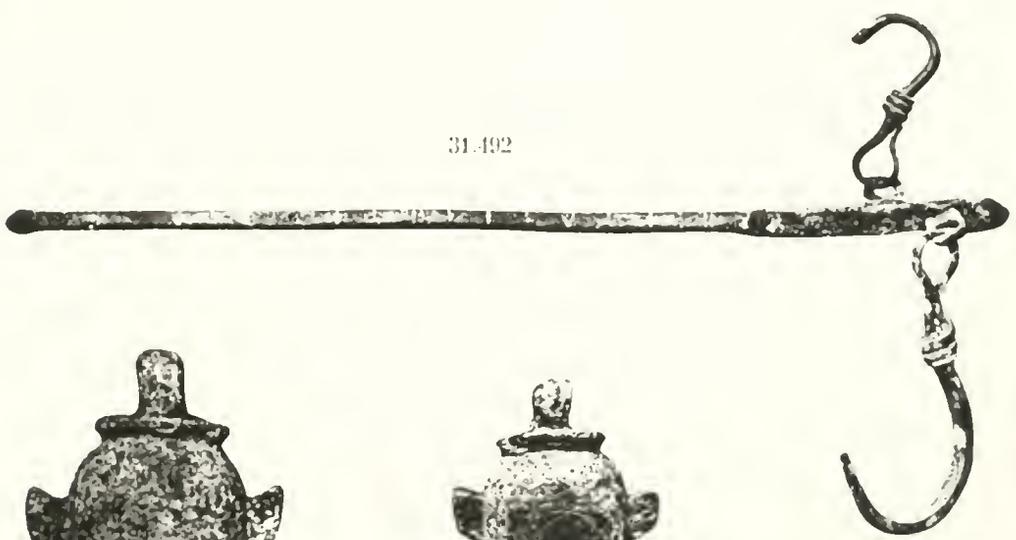
31491 TOP VIEW



31491 TOP VIEW

Parts of Balances

31.489



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1930

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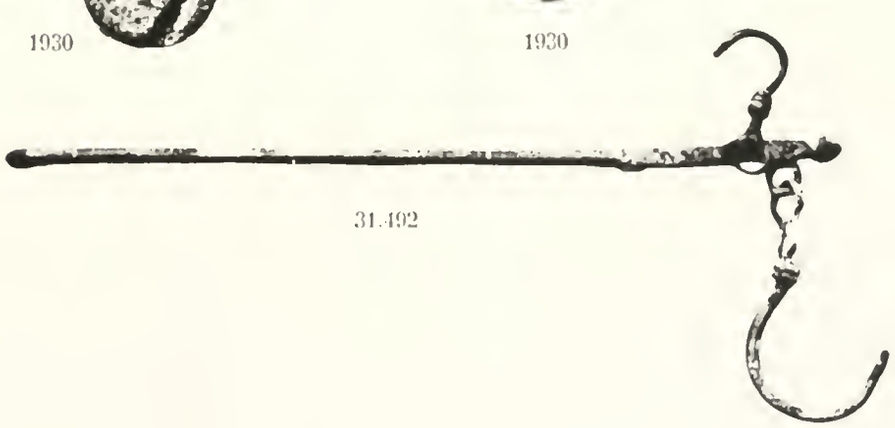

31.492

Phototypie Berthaud, Paris

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